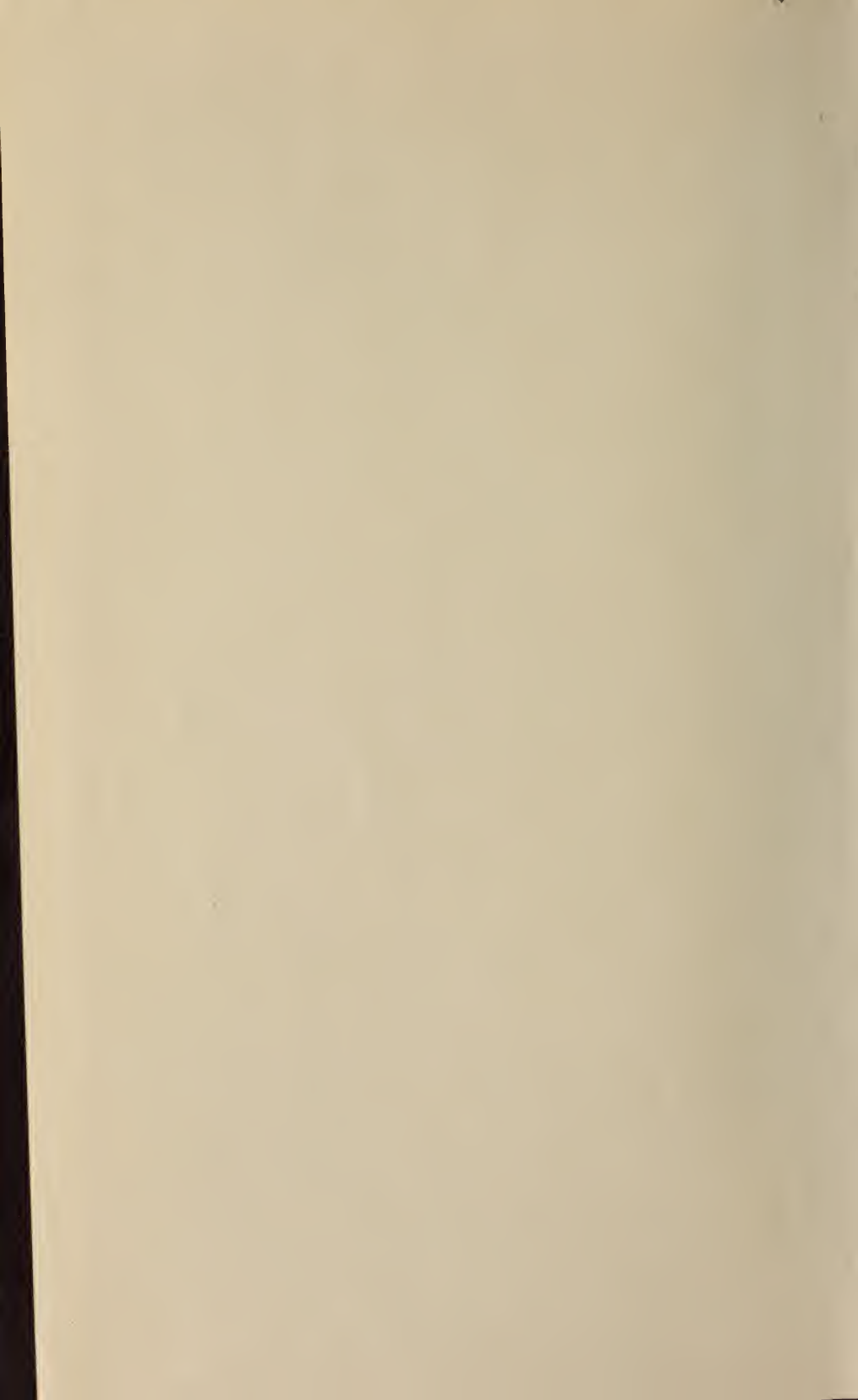
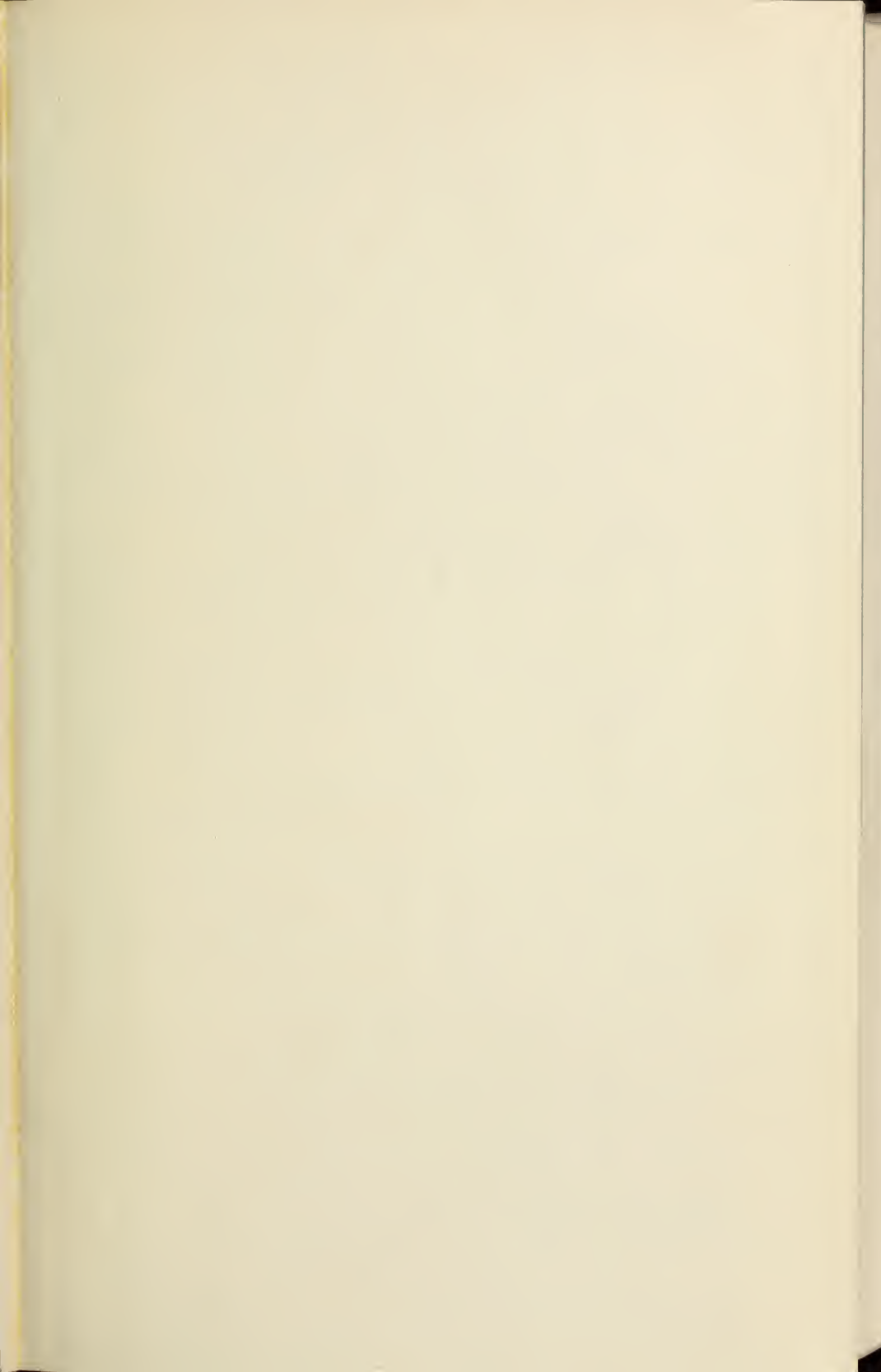




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Smith College Bulletin

THE CATALOGUE NUMBER

1959-1960

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Smith College Bulletin

The Catalogue Number

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NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 1, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Scholarships and Student Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

Correspondence

Inquiries of various types concerning Smith College may be made of the following officers and their staffs, either by mail or by interview. The post office address is Northampton, Massachusetts.

ADMISSION OF STUDENTS: Miss Jane Sehmman, *Director*

RESIDENCE & GENERAL WELFARE OF STUDENTS: Miss Helen L. Russell, *Dean of Students*

SCHOLARSHIPS & SELF-HELP: Miss Mary E. Mensel, *Director*

GRADUATE STUDY & FELLOWSHIPS: Mr. Kenneth W. Sherk, *Director*

FOREIGN STUDENTS: Mr. William H. Van Voris, *Chairman of the Committee*

HEALTH OF STUDENTS: Dr. Abbie M. O'Keefe, *College Physician*, Gateway House

ACADEMIC STANDING:

Mrs. Brewer G. Whitmore, *Dean of the Class of 1960*

Miss Marie Schnieders, *Dean of the Class of 1961*

Miss Eleanor M. Hadley, *Dean of the Class of 1962*

Miss Charlotte H. Fitch, *Dean of the Class of 1963*

LOANS FROM STUDENTS' AID SOCIETY: Miss Emma B. Proctor, *Assistant Treasurer*

PAYMENT OF BILLS: Mr. William A. Bodden, *Treasurer*

DEVELOPMENT & PUBLIC RELATIONS: Mr. Herbert N. Heston, *Director*

TRANSCRIPTS & RECORDS: Miss Louise Morton, *Registrar*

PUBLICATIONS: Mrs. Helen B. Bishop, *Publications Secretary*

SCHOOL FOR SOCIAL WORK: Mr. Howard J. Parad, *Director*

ALUMNAE AFFAIRS: Mrs. Clifford P. Cowen, *General Secretary*, Alumnae House

ALUMNAE REFERENCES: Miss Alice N. Davis, *Director of the Vocational Office*

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1959

1960

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College Calendar

FIRST SEMESTER 1959-60

SATURDAY, SEPTEMBER 19, 9:00 A.M.-3:00 P.M., Registration for Freshmen
TUESDAY, SEPTEMBER 22, 9:00 A.M., First Chapel and Registration
WEDNESDAY, SEPTEMBER 23, 9:00 A.M., Classes begin
A DAY AFTER OCTOBER 5, Mountain Day (*holiday*)
MONDAY, NOVEMBER 16, Midsemester grades due
WEDNESDAY, NOVEMBER 25, 12:50 P.M. to MONDAY, NOVEMBER 30, 9:00 A.M., Thanksgiving Week End
FRIDAY, DECEMBER 18, 12:50 P.M. to MONDAY, JANUARY 4, 9:00 A.M., Winter Recess
JANUARY 5, through 18, Reading Period (Classes will meet on Thursday, January 7)
MONDAY, JANUARY 18, Free Day for courses not having Reading Period
JANUARY 19-28, Midyear Examinations

SECOND SEMESTER 1959-60

MONDAY, FEBRUARY 1, Second Semester begins
MONDAY, MARCH 14, Midsemester grades due
WEDNESDAY, MARCH 23, 12:50 P.M. to THURSDAY, APRIL 7, 9:00 A.M., Spring Recess
MAY 6 through 20, Reading Period
FRIDAY, MAY 20, Free Day for courses not having Reading Period
MAY 21-31, Final Examinations
SUNDAY, JUNE 5, Commencement Day

OPENING OF COLLEGE 1960-61

SATURDAY, SEPTEMBER 17, Registration for Freshmen
TUESDAY, SEPTEMBER 20, First Chapel and Required Registration
WEDNESDAY, SEPTEMBER 21, Classes begin

The Board of Trustees

	THOMAS CORWIN MENDENHALL, B.LITT., PH.D., <i>President</i>	Northampton
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*Term
expires*

1960	POMEROY DAY, B.A., LL.B.	Hartford, Connecticut
1960	ALEXANDER M. WHITE, A.B., LL.D.	New York City
1961	HAZEL WINANS COE, A.B., <i>Chairman</i>	Waterbury, Connecticut
1961	ROBBINS MILBANK, A.B.	San Francisco, California
1962	PAUL H. BUCK, PH.D., LL.D., LITT.D., L.H.D.	Cambridge, Massachusetts
1962	ANTHONY L. MICHEL, B.A., LL.B.	Chicago, Illinois
1962	CHARLES G. MORTIMER, M.E. (HON.), LL.D.	White Plains, New York
1963	ELLEN ZINSSER McCLOY, A.B., LL.D.	New York City
1963	FREDERICK M. WARBURG, A.B.	New York City
1964	HARVEY BROOKS, PH.D.	Cambridge, Massachusetts
1960	ANNE CUTTER COBURN, M.A.	Cleveland, Ohio
1962	MARY BROOKS GRISWOLD, A.B.	New Haven, Connecticut
1963	CONSTANCE MORROW MORGAN, A.M.	Ridgefield, Washington
1964	LAURA CABOT HODGKINSON, A.B.	Boston, Massachusetts
1964	DOROTHY NEPPER MARSHALL, PH.D.	Bryn Mawr, Pennsylvania
	FLORENCE MACDONALD, A.B., <i>Secretary</i>	Northampton
	WILLIAM ALBERT BODDEN, B.A., <i>Treasurer and Controller</i>	Northampton

The Board of Counselors

ESTHER OGDEN HENNEMAN, A.B., (<i>Chairman</i>)	New York City
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ALFRED M. RANKIN, B.S., LL.B.	Cleveland, Ohio
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ESTHER ZISKIND WELTMAN, A.B., M.ED.	Longmeadow, Massachusetts
A. HUNTER WHITE, LL.B.	St. David's, Pennsylvania

THE FACULTY

THOMAS CORWIN MENDENHALL, B.LITT., PH.D.	<i>President and Professor of History</i>
ELIZABETH DEERING HANSCOM, PH.D.	<i>Professor Emeritus of English Language and Literature (1932)</i>
MARY LOUISE FOSTER, PH.D.	<i>Associate Professor Emeritus of Chemistry (1933)</i>
MARY LILIAS RICHARDSON, A.M.	<i>Associate Professor Emeritus of Latin Language and Literature (1937)</i>
MARY BELLE McELWAIN, PH.D., LITT.D.	<i>Professor Emeritus of Classical Languages and Literatures (1942)</i>
FLORENCE ALDEN GRAGG, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1943)</i>
LAURA WOOLSEY LORD SCALES, B.L., L.H.D., LITT.D.	<i>Warden Emeritus (1944)</i>
ANNA ADÈLE CHENOT, A.M.	<i>Associate Professor Emeritus of French Language and Literature (1944)</i>
FRANK HAMILTON HANKINS, PH.D.	<i>Professor Emeritus of Sociology (1946)</i>
MARGARET GALE SCOTT, M.A.	<i>Associate Professor Emeritus of History (1946)</i>
H. LOUISA BILLINGS, A.M.	<i>Associate Professor Emeritus of Physics (1947)</i>
EMILY LEDYARD SHIELDS, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1948)</i>
SUSAN MILLER RAMBO, PH.D.	<i>Professor Emeritus of Mathematics (1948)</i>
JOY SECOR, A.M.	<i>Registrar Emeritus (1948)</i>
ELEANOR SHIPLEY DUCKETT, PH.D., D.LITT., L.H.D.	<i>Professor Emeritus of Classical Languages and Literatures (1949)</i>
YVONNE IMBAULT-HUART, BI-ADMISSIBILITÉ À L'AGRÉGATION, O.A.	<i>Associate Professor Emeritus of French Language and Literature (1949)</i>
ELIZABETH FAITH GENUNG, M.S. IN AGR.	<i>Associate Professor Emeritus of Bacteriology (1950)</i>
ABBIE MABEL O'KEEFE, M.D.	<i>Associate Physician Emeritus (1950)</i>
ARTHUR WARE LOCKE, A.M.	<i>Professor Emeritus of Music (1952)</i>

Key for superscripts used in this section: †absent for the year; *absent for the first semester; **absent for the second semester; || with the Juniors in France; §in Spain; §in Geneva; ‡ in Italy; †appointed for the first semester; ‡appointed for the second semester.

THE FACULTY

ESTHER LOWENTHAL, PH.D.	<i>Professor Emeritus of Economics</i> (1952)
JESSIE YEREANCE CANN, PH.D.	<i>Professor Emeritus of Chemistry</i> (1952)
AGNES CARR VAUGHAN, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures</i> (1952)
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ANACLETA CANDIDA VEZZETTI, DOTTORE IN FILOSOFIA E PEDAGOGIA	<i>Associate Professor Emeritus of Italian Language and Literature</i> (1952)
GERTRUDE GOSS	<i>Associate Professor Emeritus of Physical Education</i> (1952)
KARL SCOTT PUTNAM, B.S. IN ARCH.	<i>Associate Professor Emeritus of Architecture</i> (1952)
SAMUEL RALPH HARLOW, PH.D., L.H.D.	<i>Professor Emeritus of Religion and Biblical Literature</i> (1953)
FREDERICK WARREN WRIGHT, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures</i> (1953)
VERA A. SICKELS, A.M.	<i>Professor Emeritus of Speech</i> (1953)
ELIZABETH ANDROS FOSTER, PH.D.	<i>Professor Emeritus of Spanish Language and Literature</i> (1953)
ROBERT MERRILL DEWEY, A.M.	<i>Secretary Emeritus of the Faculty</i> (1953)
MARGARET BRACKENBURY CROOK, B.A., DIPLOMA IN ANTHROPOLOGY	<i>Associate Professor Emeritus of Religion and Biblical Literature</i> (1954)
MYRA MELISSA SAMPSON, PH.D.	<i>Professor Emeritus of Zoology</i> (1955)
MARY ELLEN CHASE, PH.D., LITT.D., L.H.D.	<i>Professor Emeritus of English Language and Literature</i> (1955)
HAROLD UNDERWOOD FAULKNER, PH.D., L.H.D.	<i>Professor Emeritus of History</i> (1955)
HALLIE FLANAGAN DAVIS, A.M., L.H.D., D.F.A.	<i>Professor Emeritus of Drama</i> (1955)
K. FRANCES SCOTT, PH.B., M.D.	<i>Associate Professor Emeritus of Hygiene</i> (1955)
LOUISE MARIE BOURGOIN, LIC. ÈS L., O.A.	<i>Associate Professor Emeritus of French Language and Literature</i> (1956)
HOWARD ROLLIN PATCH, PH.D., LITT.D.	<i>Professor Emeritus of English Language and Literature</i> (1957)

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MIGUEL ZAPATA Y TORRES, PH.D.

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WILLIAM BEAUMONT SCATCHARD, B.MUS., B.S.

Associate Professor Emeritus of Music (1957)

SETH WAKEMAN, PH.D.

Professor Emeritus of Education and Child Study (1958)

VERA BROWN HOLMES, PH.D.

Professor Emeritus of History (1958)

C. PAULINE BURT, PH.D., SC.D. (HON.)

Professor Emeritus of Chemistry (1958)

MARY EVELYN CLARKE, PH.D.

Professor Emeritus of Philosophy (1958)

BENJAMIN MARTIN SHAUB, PH.D.

Associate Professor Emeritus of Geology and Geography (1958)

MARGARET ALEXANDER MARSH, A.M.

Professor Emeritus of Sociology and Anthropology (1959)

DANIEL AARON, PH.D.

Professor of English Language and Literature

DOROTHY SEARS AINSWORTH, PH.D., SC.D. (HON.)

Professor of Physical Education

GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)

Professor of Physics on the Gates Foundation

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Professor of English Language and Literature

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Robert A. Woods Professor of Economics

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College Physician and Professor of Bacteriology and Public Health

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Professor of Zoology

GWENDOLEN MARGARET CARTER, PH.D.

Professor of Government

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Visiting Professor of French Language and Literature

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Charles N. Clark Professor of Religion and Biblical Literature

NEAL BREAULE DENOOD, PH.D.

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ERNEST CHARLES DRIVER, PH.D.

Professor of Zoology

JOHN WOODS DUKE

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SAMUEL ATKINS ELIOT, A.B.

ALVIN DERAUD ETTLER, MUS.B.

ALFRED YOUNG FISHER, DOCTEUR DE
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PAUL GERALD GRAHAM, PH.D.

MARGARET STORRS GRIERSON, PH.D.

RENÉ GUIET, DOCTEUR DE L'UNIVERSITÉ
DE PARIS

VINCENT GUILLOTON, AGRÉGÉ DE L'UNI-
VERSITÉ

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CHARLES JARVIS HILL, PH.D.

HENRY-RUSSELL HITCHCOCK, A.M.

**KATHERINE GEE HORNBEAK, PH.D.

HAROLD EDWARD ISRAEL, PH.D.

²LELAND HAMILTON JENKS, PH.D.

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RICHARD EDWARD JOHNSON, PH.D.

CLARENCE KENNEDY, PH.D.

RUTH LEE KENNEDY, PH.D.

RUTH WEDGWOOD KENNEDY, A.B.

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OLIVER WATERMAN LARKIN, A.M.

**ALICE AMBROSE LAZEROWITZ, PH.D., LL.D.

MORRIS LAZEROWITZ, PH.D.

**PHYLLIS WILLIAMS LEHMANN, PH.D.

MARINE LELAND, PH.D., LITT.D. (HON.)

†ELEANOR TERRY LINCOLN, PH.D.

*Professor of English Language and
Literature on the Mary Augusta Jordan
Foundation*

Professor of Chemistry

Professor of Theatre

Professor of Music

*Professor of English Language and
Literature*

Professor of History

*Professor of German Language and
Literature*

*College Archivist, Executive Secretary
Friends of the Library, Director of
the Sophia Smith Collection*

*Professor of French Language and Litera-
ture*

*Professor of French Language and Lit-
erature on the Helen and Laura Shedd
Foundation*

William Allan Neilson Research Professor

*Professor of English Language and Lit-
erature*

Professor of Art

*Professor of English Language and Litera-
ture*

Professor of Psychology

*Visting Professor of History
Librarian*

Professor of Mathematics

Professor of Art

*Professor of Spanish Language and Lit-
erature*

Professor of Art

Professor of History

Professor of Art

Professor of Philosophy

Professor of Philosophy

Professor of Art

*Professor of French Language and Lit-
erature*

*Professor of English Language and Lit-
erature*

THE FACULTY

*NEAL HENRY MCCOY, PH.D.
 NORA MAY MOHLER, PH.D., SC.D. (HON.)
 †HELEN MUCHNIC, PH.D.

ABBIE MABEL O'KEEFE, M.D.
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HELEN WHITCOMB RANDALL, PH.D.

SOLON ROBINSON
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 HELEN LOUISE RUSSELL, PH.D.

MAX SALVADORI, DR. SC. (POL.), LITT.D.
 †WILLIAM TAUSSIG SCOTT, PH.D.
 MARIE SCHNIEDERS, PH.D.

KENNETH WAYNE SHERK, PH.D.

ELSA MARGAREETA SHPOLA, PH.D.
 DORIS SILBERT, A.M.
 ELINOR VAN DORN SMITH, PH.D.

GERTRUDE PARKER SMITH, A.M.
 MILTON DAVID SOFFER, PH.D.
 **MARTHE STURM, LIC. ÈS L., DIPLÔME
 D'ÉTUDES SUPÉRIEURES
 WILLIAM SENTMAN TAYLOR, PH.D.
 LOIS EVELYN TE WINKEL, PH.D.
 DOROTHY WALSH, PH.D.
 KATHERINE REDING WHITMORE, D.LIT.
 (MADRID)
 EDNA REES WILLIAMS, PH.D.

JEAN STRACHAN WILSON, PH.D.

Professor of Mathematics
Professor of Physics
Professor of Russian Language and Literature
College Physician
Sydenham Clark Parsons Professor of History
Professor of Sociology and Anthropology
Director of the Smith College School for Social Work
Professor of Art and Director of the Smith College Museum of Art
Professor of French Language and Literature
Dean and Professor of English Language and Literature
Professor of Music
Professor of Music
Dean of Students and Professor of Physical Education
Professor of History
Professor of Physics
Professor of German Language and Literature and Dean of the Class of 1961
Professor of Chemistry and Director of Graduate Study
Professor of Psychology
Professor of Music
Professor of Bacteriology and Public Health
Professor of Music
Professor of Chemistry
Professor of French Language and Literature
Professor of Psychology
Professor of Zoology
Professor of Philosophy
Professor of Spanish Language and Literature and Dean of the Class of 1960
Professor of English Language and Literature
Professor of History

THE FACULTY

DOROTHY WRINCH, D.SC.
RUTH ELIZABETH YOUNG, A.M.

Visiting Research Professor of Physics
Professor of Italian Language and Literature

SARA BAGHE-WIIG, PH.D.
HELEN H. BACON, PH.D.

Associate Professor of Botany
Associate Professor of Classical Languages and Literatures

BETTY BAUM, M.S.S.

Student Counselor on the Eva Hills Eastman Foundation

†MARIE BORROFF, PH.D.

Associate Professor of English Language and Literature

EDITH BURNETT, B.S.

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✓ELIZABETH CARROLL O'CONNOR	<i>Ziskind House</i>
KATHARINE MOSSER PEDICONI, A.B.	<i>Dawes House</i>
✓SARA BEAUVAIS ROSENTHALL	<i>Washburn House</i>
HELEN PRESTON SAWYER	<i>Talbot House</i>
✓FAITH HAVILAND SCHULTE	<i>Hubbard House</i>
MILDRED WICKSON SYMMES, B.S.	<i>Morrow House</i>
✓JULIA WARNER, B.S.	<i>Lamont House</i>
✓MAUDE F. WOODBURY	<i>Haven House, Wesley House</i>
✓DORIS MCKAY WOODS	<i>Cushing House</i>
MADELEINE RANDALL YOUNG	<i>Sessions House</i>

STANDING COMMITTEES OF THE FACULTY

ON THE ORGANIZATION OF THE COLLEGE

COMMITTEES (*elected*)

The President, the Dean, Mr Wendell Johnson (*chairman*) (1960), Miss Kenyon (1960), Mr Mead (1961), Mr Josephs (1961).

TENURE AND PROMOTION (*elected*)

The President (*chairman*), the Dean, **Mrs Lazerowitz (1960), *Mr McCoy (1961), Miss Silbert (1962), Miss Gabel (1963), Miss Wilson (1964). Substitute for the year: Mr Arvin.

TRUSTEE-FACULTY CONFERENCE (*elected*)

Mr. Sherk (1960), Mr. Hill (1961), Mr. Larkin (Educational Policy), Miss Silbert (Tenure and Promotion).

ADMINISTRATIVE BOARD

The Dean (*chairman*), the Dean of Students, the Class Deans, the Registrar, the College Physician, Mr Doland, Mr Gotwals, Mr MacSherry.

*absent for the first semester

**absent for the second semester

†absent for the year

COMMITTEES OF THE FACULTY

CONFERENCE

The President, the Administrative Board, five members of the Student Council, four members of the House of Representatives.

BOARD OF ADMISSION

The President (*chairman*), the Dean, Miss Sehmman, Miss McGarry, Miss Russell, Mr Hill, Mr Mair, Miss Fitch, †Miss Robinton. Substitute for the year: Miss Horner.

REGISTRATION OF STUDENTS

Miss Newhof (*chairman*), Miss Clute.

CURRICULUM AND GUIDANCE OF STUDENTS

EDUCATIONAL POLICY (*elected*)

The President, the Dean (*chairman*), Miss Gabel (1960), Mr Larkin (1960), Mr Weinstein (1960), †Miss Borroff (1961), Mr de Villafranca (1961), †Miss Lincoln (1961), Mr Wendell Johnson (1962), Mr Josephs (1962), Miss Peoples (1962). Substitutes for the year: Mr Gotwals, Miss Elinor Smith.

BOARD OF ADVISERS

The Dean (*Chairman*), Mr Bragdon, Miss Brown, Mrs Burdick, Mr Cohn-Haft, Miss Corwin, Mr Craig, Mr de Villafranca, Mr Dimock, Mr Doland, Mr Durham, Miss Garsoian, Mr Gessert, Mr Gotwals, Mrs Haigh, Miss Horner, Mrs Hoyt, Mr Huntington, Mr Wendell Johnson, Mr Josephs, Mr Keppler, Mr McCartney, Mr MacSherry, Mr Mair, Mr May, Mr Mendelson, Mr Olmsted, Mrs Olson, Miss Peoples, Mr Robertson, Mr Ross, Mr Scarrow, Mr Schalk, Miss Elinor Smith, Miss Sonnenfeld, Mr Stenson, Miss Sturm, Mr Teevan, Miss Te Winkel, Mr Van Voris, Mrs von Klemperer, Mr Weinstein, Miss Hadley and Miss Fitch (*ex-officio*).

HONORS

Miss Mohler (*chairman*), the President, the Senior Class Dean, the Junior Class Dean, Mr Keppler, Mr Durham, Mr Lewy, Mr Petersson, Miss Wilson.

GRADUATE STUDY

Mr Sherk (*chairman*), the President, Miss Ainsworth, Miss Cockrell, Mr Cohn-Haft, Mr de Villafranca, *Mr Durán, Miss Silbert, Mr Van Voris. Substitute for the first semester: Mrs Lehmann.

FOREIGN STUDENTS

Mr Van Voris (*chairman*), Miss Helen Bacon, Mr Cohn-Haft, Mr Durham, Mr MacSherry, **Miss Sturm, Mr Unsworth, Miss Williams, Miss Mensel (*ex-officio*), Mrs Davis (*Adviser to Foreign Students*). Substitute for second semester: Miss Ott.

COMMITTEES OF THE FACULTY

OTHER COLLEGE BUSINESS

ATTENDANCE AT LEARNED SOCIETIES

Mr Mair (*chairman*), Miss Navarro, Mr Schendler.

FACULTY OFFICES

Mr Petersson (*chairman*), Mr Dimock, Mr Mair.

HONORARY DEGREES

Miss Carpenter (*chairman*) (1960), Mrs Kennedy (1961), Miss Carter (1962).

JUNIPER LODGE

Miss Stobbe (*chairman*), Miss Hornbeak, Mrs McClumpha (*secretary*).

LECTURES

Mr Sheehan (*chairman*), Miss Hadley, Mr Connelly, Mr Duke, Mrs Kierstead, Mr Olmsted, Mr May (*secretary*).

LIBRARY

Mr MacSherry (*chairman*), the Librarian, Mr de Villafranca, Mrs Kennedy, Miss Williams.

MARSHALS

Mr Wright (*College Marshal*), Mr Sherk, Miss Helen Bacon, Miss Benson, Miss Navarro.

MOTION PICTURES

Mr Snyder (*chairman*), Mr Mead, Mrs Whitmore, Miss Young, Mr Petersson, Mr Cohen (*ex-officio*), Mrs Cantarella (*secretary*).

SCHOLARSHIPS

The President (*chairman*), the Dean, the Dean of Students, Miss Mensel, Mr Bodden, Mrs Haigh, Mr McCartney, Mr Van Voris (*ex-officio*).

STUDENTS' AID SOCIETY

Mrs Kierstead (*chairman*), Mrs Hobbs.

CHAIRMEN OF ACADEMIC DIVISIONS

- I THE HUMANITIES: Miss Peoples
- II SOCIAL SCIENCES AND HISTORY: Mr von Klemperer
- III NATURAL SCIENCES AND MATHEMATICS: Mr Wright

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid had been amassed by a man who, like many Americans, had made a fortune without any apparent ulterior purpose. He seems to have bequeathed it to his sister because he had not made up his mind what else to do with it. Sophia Smith left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form the substance of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity, and the only prescription is the pervading of instruction by the spirit of the gospel of Jesus Christ. This injunction has been obeyed in the past, we trust and believe it is being obeyed in the present, and there is no reason to believe that it will not be willingly and gladly observed in the future.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laureus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same emphasis on literature, art, and music. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to 122; its student body from 14 to 1635; its buildings from three to 35. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over

HISTORY OF SMITH COLLEGE

1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern now generally familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson

HISTORY OF SMITH COLLEGE

retired at the end of the academic year 1938-39; during the interregnum Mrs. Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942 and the closing of the school in January, 1945 more than ninety-five hundred women received their commissions.

After the war, the College returned to the regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, and faculty salaries were increased. After ten years in office, Mr. Wright resigned in order to resume writing and research in the field of constitutional law. Before leaving to take up a faculty fellowship at the Institute of Behavioral Sciences in Palo Alto, he announced the receipt of a large gift to the College to be used for a new faculty office and class room building to be named in his honor.

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of

HISTORY OF SMITH COLLEGE

History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching program.

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of 13 acres and a campus of 206 acres; between Sophia Smith's legacy of \$400,000 and total assets of \$43,437,653, between the first class of 14 and today's enrollment of 2395; between the 11 graduates of 1879 and an alumnae roster of 30,687. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars:
KURT KOFFKA, PH.D. *Psychology*. 1927-32.

G. ANTONIO BORGESE, PH.D. *Comparative Literature*. 1932-35.

SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.

ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.

GEORGE EDWARD MOORE, D.LIT., LL.D. *Philosophy*. First semester, 1940-41.

KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.

CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.

ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.

EDGAR WIND, PH.D. *Art*. 1944-48.

DAVID NICHOL SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.

DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.

PIETER GEYL, LIT.D. *History*. Second semester, 1951-52.

WYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.

ALFRED KAZIN, M.A. *English*. 1954-55.

HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.

PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.

KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.

ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.

Admission of Undergraduates

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request, and by paying a registration fee of \$15 which is not refunded. If possible, such registration should be made well in advance of entrance to enable the applicant to receive the benefit of advice in making her entrance plans. Although the date of application is not considered in the selection of candidates, rooms in college houses are assigned to freshmen in order of their dates of application for admission. Applications must be received not later than February 15 in the year of entrance.

SELECTION OF CANDIDATES

The Board of Admission meets in April each year to evaluate the records of the applicants to the Freshman Class. Its purpose is to select students who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation. The Board's estimate of the student's ability, motivation, and maturity is based upon her secondary school record, rank in class, recommendations of the principal and a teacher, results of the College Board examinations, and other available information. An interview is not required but is often helpful both to the candidate and to the Board. The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

EARLY DECISION ON ADMISSION

Candidates who are clearly well-qualified in every respect and have made application *only* to Smith College may submit their applications for consideration at the November meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision early in December. Decisions are based upon the same general criteria as at the spring meetings, except that the record is a three-year one. The Scholastic Aptitude Test should be taken in March of the junior year and the three Achievement Tests in May.

Candidates interested in this admission procedure should write to the Board of Admission for the pamphlet, *Plan for Early Decision on Admission*.

SECONDARY SCHOOL PREPARATION

An important relationship exists between school and college work. In planning

ADMISSION OF UNDERGRADUATES

her preparation for entrance, a candidate should bear in mind the different ways in which this relationship will affect her own college studies.

Primarily, the preparatory program recommended below is intended to assure for the student a satisfactory basis for the work which she will be asked to do on a college level. The discipline and the knowledge acquired from the study of English, languages, mathematics-science, and history have a general bearing upon all college studies.

As basic foundation for college work, the student should have completed a four-year secondary school program giving sixteen year credits and corresponding to one of the curricula presented below. The elective work may be in language, mathematics, science, history, art, Bible, or music. For special information concerning entrance credits for art, Bible, and music, apply to the Board of Admission.

<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>
English	4	English	4	English	4
Language	3*	Language	5**	Language	5**
Mathematics } Science }	4†	Mathematics	2§	{ Mathematics { Science	4†
History	2‡	History	2‡	History	1
Elective	3	Elective	3	Elective	2
	—		—		—
Total	16		16		16

* Or two years in each of two different languages, making a total of four. No credit will be given for one year of a language.

**One of the languages should be Latin or Greek.

† Three in mathematics and one in science (biology, chemistry, or physics), or four in mathematics.

‡ In different fields.

§ Algebra and plane geometry (may be an integrated course).

The College is aware of the fact that there is variation among school curricula throughout the country. It is willing to give careful consideration to able students whose programs deviate at some points from those suggested above.

ENTRANCE TESTS

Candidates for admission to the Freshman Class are required to take the Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board. One Achievement Test must be in English; the others must be selected from two of these fields: (1) foreign languages (Greek, Latin, French, German, Italian, Spanish), (2) mathematics or science (intermediate mathematics, advanced mathematics, biology, chemistry, physics), (3) social studies (history). It is strongly recommended that these tests be taken in subjects studied in the senior year.

ADMISSION OF UNDERGRADUATES

All candidates will be required to take these tests in their senior year. Students who complete the school course in June will be expected to take the three Achievement Tests in March of that year and the Aptitude Test in January. Those students who are graduated in the middle of the year may take all the tests in December. The Board of Admission advises all candidates to take the Scholastic Aptitude Test for guidance purposes in May of their junior year.

COLLEGE BOARD EXAMINATIONS

The College Entrance Examination Board will send free of charge to any school or applicant a copy of its *Bulletin of Information* which contains full data concerning application, fees, and examination centers.

All candidates, except those living in states or foreign areas listed below, should make application by mail to the *College Entrance Examination Board, Box 592, Princeton, New Jersey*. Those who wish to take the examinations in Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alaska, Hawaii, Alberta, British Columbia, Saskatchewan, Manitoba, Yukon, Northwest Territories, Mexico, Australia, Pacific Islands including Formosa and Japan should address their inquiries and send their applications to the *College Entrance Examination Board, Box 27896, Los Angeles 27, California*.

In order to facilitate the arrangements for the conduct of the tests all applications should be filed at least a month before the test is to be taken. The fee for the Scholastic Aptitude Test is \$6; for the Achievement Tests \$9. Applications and fees should reach the office of the Board not later than the dates specified in the *Bulletin of Information*. The final date for filing application for examination at an established center outside the United States, Canada, Canal Zone, Mexico, and the West Indies is approximately two months prior to the date of the examination. Late applications will be subject to a penalty of \$3 in addition to the regular fee.

Requests for the establishment of new overseas centers should reach the appropriate Board office at least two months prior to a scheduled examination date.

ADVANCED PLACEMENT

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. Students who have taken college level courses in secondary schools which also participate in this program are strongly urged to take the College Board Advanced Placement Examinations given late in the spring of senior year. On the basis of satisfactory examinations, these students may then be eligible to enter sophomore courses in the individual subjects.

FOREIGN STUDENTS

Smith College is interested in admitting qualified foreign students. Applicants

ADMISSION OF UNDERGRADUATES

are advised to communicate with the Director of Admission well in advance of entrance in order that the College may advise them concerning entrance plans.

ADVANCED STANDING STUDENTS

The College admits each year a small number of sophomores and juniors by transfer from other colleges. Candidates for admission with advanced standing are judged on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their school and college programs should correlate with the general college requirements given on p. 38 of this *Catalogue*. When making application for admission with advanced standing, students should include a detailed statement of their previous educational experience and their reasons for wishing to transfer.

Admission to advanced standing is competitive. Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying hours above the minimum or taking work in an approved summer school. During their first semester in residence, advanced standing students may not elect more than seventeen hours except by permission of the Administrative Board. At least two years' residence at Smith College is ordinarily required of a candidate for the degree of Bachelor of Arts.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only in the following February.

NONCOLLEGIATE STUDENTS

Qualified persons beyond the age of the undergraduate may be admitted to courses of study or to supervised research work with the approval of the Registrar and the instructor concerned. Auditors should obtain the permission of the Registrar and of the instructor concerned. (See p. 162 for fees.)

The Curriculum

As candidates for the degree of Bachelor of Arts, undergraduate students normally follow a four-year program in which they are required to complete one hundred and twenty hours of academic work as well as prescribed courses in physical education.* For graduation they must achieve a cumulative average of C (fair) in their academic work and a C average in the senior year; in computing these averages plus and minus signs are not taken into account. The minimum schedule for a semester consists of fifteen credit hours.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

ORGANIZATION OF THE CURRICULUM

DIVISION I. THE HUMANITIES

- GROUP A. *Literature*: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature
- GROUP B. *Fine Arts*: Art, Music, Theatre
- GROUP C. *Philosophy, Religion*

DIVISION II. SOCIAL SCIENCES AND HISTORY

- GROUP D. *History*
- GROUP E. *Social Sciences*: Economics, Education, Government, Sociology, Social Science

DIVISION III. NATURAL SCIENCES AND MATHEMATICS

- GROUP F. *Physical Sciences and Mathematics*: Astronomy, Chemistry, Geology, Physics, Physical Science, Mathematics
- GROUP G. *Biological Sciences*: Bacteriology, Botany, Psychology, Zoology, Biological Science

Speech and Physical Education are associated with Divisions I and III respectively.

*For this requirement in Physical Education see page 119.

THE CURRICULUM

GENERAL COLLEGE REQUIREMENTS

The program of the first two years of the college course is generally diversified, while the last two years are devoted primarily to study in a major field which is chosen at the end of the sophomore year.

Because the College considers experience in certain fields of knowledge essential to a liberal education, it has set a number of special and distribution requirements to be completed before graduation.

SPECIAL REQUIREMENTS

- (1) Six semester hours in Freshman English, required in the first year.

A few students with exceptionally high entrance records in English will be exempted from the requirement. Such students will be notified of exemption in the summer and may, if they wish, elect a Grade II course in English. A list of courses open to them will be sent with notification of exemption.

Freshmen who do not pass English 11 with a satisfactory grade must work tutorially in sophomore year with the Committee on Special Assistance in Written English.

- (2) Six semester hours in a foreign language. The minimum prerequisite for courses which fulfill the requirement is three entrance units in a language or six hours in college. Courses which fulfill the requirement are marked (L) and are offered in the following departments: Classics, French, German, Italian, Russian, Spanish.

NOTE—A 12 course in a modern language will not fulfill the requirement for students entering with two units in the language.

- (3) Students entering without units in Latin or Greek are required to take either Latin 11 or Greek 11, or six hours of classical literature in translation.

DISTRIBUTION REQUIREMENTS

- (1) Six semester hours in literature (Group A: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature). This course must be taken in a language other than the one used to fulfill the foreign language requirement.
- (2) Six semester hours in Art, Music, Theatre (Group B) or Philosophy, Religion (Group C). Students are urged to take six semester hours in each group if possible.

THE CURRICULUM

- (3) Six semester hours in History (Group D).

Exemption from this requirement will be granted to students who offer at least three units of the proper content: ancient, American, European (medieval and modern, or modern since 1600), and who pass an examination in one of these fields, administered by the Department after the opening of college. This examination must be taken at the beginning of Freshman Year.

- (4) Six semester hours in Government, Economics, Sociology, or Social Science (Group E).

In rare cases students with preparation in these fields may be granted exemption on the basis of an examination. Application should be made to the Class Dean.

- (5) Six semester hours in Astronomy, Chemistry, Geology, Physics, Physical Science (Group F) or Botany, Zoology, Biological Science (Group G). Students are urged to take six semester hours in each group if possible.

Beginning with the Class of 1961, students who have had two years of laboratory science in the last three years of secondary school may fulfill this requirement through certain prescribed courses in mathematics or psychology.

The courses which may be taken to fulfill these distribution requirements are named at the head of each department offering and specified in the list of Interdepartmental Courses, on page 47.

THE MAJOR

In the junior and senior years the student devotes half or more of her time to study in a single field selected on the basis of a course or courses taken in the first two years. Major programs, which are offered in all departments except Physical Education and Speech, are described under the department offerings (see pp. 49 ff.). When a student enters upon her major she comes under the direction of a major adviser and obtains the approval of that adviser for her major program.

Of the thirty semester hours required in the major at least eighteen must be in courses of Grade III or higher in the field of concentration and of these twelve must be in the department. Students are required to take not less than twelve hours in the major field in each of junior and senior years. Courses taken in sophomore year, exclusive of the basic course, may be counted in the major.

At least six semester hours in the junior or the senior year must be taken in a division other than the one in which the student is majoring.

In the junior and senior years not more than twelve semester hours of Grade I, and not less than twenty-four semester hours above Grade II, may be taken for credit toward graduation.

The curriculum includes interdepartmental majors in American Studies, General Literature, Bacteriology, Biochemistry, Premedical Science (see pp. 152 ff.).

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THE JUNIOR YEAR ABROAD

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in Paris, Italy, and Spain are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, history, or sociology. Majors in other fields with adequate preparation in language may apply to the appropriate committees with the consent of the department of the major. Properly prepared students from other colleges may be admitted to the groups.

The Junior Years Abroad are planned to afford as rich an opportunity as possible to observe and study the countries visited. Art, music, and theatre are available, and the Directors arrange occasional meetings with outstanding scholars, writers, and leaders. During the vacations students are free to broaden their acquaintance with the country, although they may stay in residence if they prefer.

Applications, including permissions from parents, must be made by February 15 to the Office of the Dean. The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the college year.

The fee covering tuition and board is \$2200; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable on May 1 by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless notice of withdrawal from the group is sent the Office of the Dean before June 1. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton.

Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. Students are required to carry health and accident insurance which is available through a general college plan.

PARIS: Arrangements are made for students to live in Paris with carefully selected families. Full-time junior programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. The language require-

THE CURRICULUM

ment for admission to the group is usually two years of college French beyond three entrance units.

ITALY: The work of the year begins with a month in Siena where study of the language and of art and literature is undertaken with special instructors. After the first of October this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence. The subjects offered are Italian art, history, language, and literature. In Siena the students stay in a country villa; in Florence they live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian. By special action of the committee, promising students with only one year of Italian may be accepted.

SPAIN: After a preliminary month of intensive training in language spent in one of the provincial cities, the juniors go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

GENEVA: The work in Geneva emphasizes international studies rather than the history and culture of a single country, and accordingly the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. As the classes are conducted in French, students are encouraged to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered.

GERMANY: Qualified Smith College students are permitted to spend the junior year with the Wayne State University program, in which the course work is done at the University of Munich. Miss Schnieders is the adviser to Smith College students applying for this program.

EXCHANGE PROGRAM WITH TORONTO

Since 1945 an exchange of students in the junior class with juniors at the University of Toronto has proved to be highly successful. For the year the Smith juniors live in the colleges of the University and carry on programs approved by their major advisers. Candidates from Smith must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department. Not more than eight exchanges will be arranged in any year. Regular Smith College fees, covering residence and tuition at the University of Toronto, are paid to the Treasurer of Smith College.

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COOPERATION WITH AMHERST, MOUNT HOLYOKE, AND THE UNIVERSITY OF MASSACHUSETTS

Smith College has an arrangement with Amherst and Mount Holyoke Colleges and the University of Massachusetts by which any of their courses are open to our students if they are properly qualified and if, in the opinion of the Dean of the College, this procedure seems reasonable. The courses concerned will ordinarily be advanced courses in the student's major subject, not available currently on this campus. The College will arrange for transportation as may be necessary.

Students interested in such courses will find current catalogues of the other institutions at the Loan Desk of the Library. Application blanks may be obtained from the Office of the Dean.

COOPERATION WITH THE YALE MASTER OF ARTS IN TEACHING PROGRAM

Smith and Vassar Colleges are now cooperating in a special experimental program which permits a small number of undergraduates to complete the requirements for the Smith College A.B. degree by taking the fourth year of their undergraduate course in the Graduate School at Yale University, and to earn the M.A.T. degree from Yale at the end of a fifth year, most of which is devoted to full-time teaching in the public secondary schools of the New Haven area.

Information concerning this program may be obtained from the Office of the Dean.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. This program allows for flexibility in the planning and execution of the work of the major and at the same time gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD: The degree is awarded with honors in three grades, *summa cum laude*, *magna cum laude*, and *cum laude*, based on (a) an independent piece of work which may involve the preparation of a long paper or the conduct of an investigation, (b) an estimate of the work in courses and units in the major field made by the department of the major, and (c) three final examinations.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

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ADMISSION: A student having an average of B for the three semesters preceding her application is eligible for honors. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments students may enroll at the beginning of either semester of junior year or at the beginning of senior year. They may withdraw only upon recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualifications.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program (with the permission of the director she may carry less than fifteen hours) and will be exempt from all course examinations at the end of the senior year. Honors students will be given preference over other undergraduates when admission to units must be limited, and may be given such preference when admission to seminars must be limited.

ACADEMIC RECORD

Grades are given with the following significations: A, excellent; B, good; C, fair; D, poor; E, failure.

Students are named on the Dean's List when in the previous year they have achieved an average of B or better.

Students who fail to maintain diploma grade or fail to register and attend classes in accordance with the regulations are placed on the Registrar's List. They are subject to special requirements in attendance of classes. Further details concerning the Registrar's List are printed in the *College Handbook*.

A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work carried above the minimum.

A student whose college work is generally unsatisfactory is subject to exclusion from college.

A student who has failed in the work of five or more hours in two consecutive semesters or in any three semesters, or has failed in the work of ten or more semester hours in a year is excluded from college unless special exception is made by vote of the Administrative Board.

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PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected to membership in April. In 1920 provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

Smith College was the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

RULES GOVERNING ELECTION OF COURSES

1. Each student is expected to make herself familiar with all regulations governing the curriculum.
2. Certain conditions require the presentation of permission slips or of petitions to the Administrative Board. (A petition to the Board requires the recommendation of the chairman of the department and of the instructor concerned.) Petition slips may be obtained from the Office of the Class Deans.
 - (a) Students who wish to enter a course for which they have not had the stated prerequisite must file a petition with the Administrative Board.
 - (b) Freshmen and sophomores who wish to enter a course of a higher grade than is normally open to their class must file a petition with the Administrative Board. Exceptions in the languages and sciences are made for those students who have the stated requirements.
 - (c) Juniors not taking honors work who wish to enter a course of Grade IV (including seminars) must have the permission of the department concerned and file a petition with the Board.
 - (d) Seminars of Grade IV, limited to twelve students, are open to juniors and seniors only by permission of the instructor. Students not candidates for honors are permitted to take only one seminar in a semester.
 - (e) Special Studies of Grade IV are open only by permission of the department. They are limited to seniors who have had twelve semester hours above Grade I and are majoring in the department concerned.

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(f) Grade V courses are open to seniors only if they have a major or its equivalent in the department and if they have at least a B average in that major. Under these conditions they may be admitted by permission. They may not carry more than three hours of Grade V work a semester except in technical art and practical music unless they have special permission from the Administrative Board.

(g) A student may not carry in any semester less than the required minimum of fifteen hours or more than two hours above the required minimum except with the permission of the Administrative Board.

A shortage of hours permitted by the Administrative Board may be made up by a corresponding excess of hours distributed over succeeding semesters.

(h) A year course may not be entered in the middle of the year except with the permission of the Administrative Board and the consent of the department concerned. When a year course is dropped, credit for the first semester is not allowed except with the recommendation of the instructor and the chairman of the department and the permission of the Administrative Board.

3. In each semester of the freshman and sophomore years the student must carry at least four three-hour courses.
4. Changes in courses may be made without fee until September 15. Thereafter changes may be made through the first week of college only at a charge of five dollars, unless the change has been initiated by an instructor or is the result of curriculum changes beyond the student's control. Exception is made for freshmen and advanced standing students who may change courses without fee through the first ten days of the first semester.
 - (a) Requests for these changes should be filed in the Office of the Class Deans.
 - (b) If changes on the course cards are made necessary by reason of carelessness on the part of the student a fee of two dollars is charged.
 - (c) Permission to drop hours of work carried above the minimum will not be granted after November 15 for the first semester and after April 3 for the second semester.
5. A student is not allowed to attend a class either as an occasional or a regular auditor except with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1959-1960

Key to Symbols and Abbreviations

Courses are arranged in five grades indicated by the first digit in the course number. Those of Grade I are primarily for freshmen, those of Grade II for sophomores. Courses of Grade III are for juniors and seniors but are also open to sophomores when a statement to that effect is included in the description. Grade IV courses are for seniors, honors students, or qualified juniors. Grade V courses are for graduate students.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester.

Where no letter follows the number of the course, the course runs through the year.

Unless otherwise indicated, all year courses carry credit of six hours; all semester courses, three hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes. Where scheduled hours are not given for courses or for laboratory work, the times of meeting are arranged after elections are made.

[] Courses in brackets will be omitted for the year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; rec., recitation; sect., section; dis., discussion.

An "L" in parentheses at the close of the description of a course in the literature departments indicates that it may be taken to fulfill the foreign literature requirement.

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; || with the juniors in France; ‡with the juniors in Spain; § with the juniors in Geneva; † with the juniors in Italy; ¹appointed for the first semester; ² appointed for the second semester.

INTERDEPARTMENTAL COURSES

SOCIAL SCIENCE 192. *Modern American Society*. Problems in and interpretations of American society, including such topics as: industrialism, class structure, race relations, "national character," the competitive market and its fluctuations, and the sources of party and governmental conflict, stability, and change. Materials and methods of economics, sociology, and political science are employed. Open to a limited number of freshmen and sophomores. Lec. M 11; dis. T W 11, 2. Mr Olmsted (*Director*). (Group E)

PHYSICAL SCIENCE 193. *The World of Atoms*. A course in physical principles with the two-fold purpose of conveying the contemporary picture of nuclear, atomic, and molecular structure and developing an understanding of the methods of physical science. Chemical and physical ideas are discussed in relation to each other and developed quantitatively. The historical growth of scientific concepts is traced from the Greeks to the present. Lec. Th F S 9, dis. W 10, 11. Mr Josephs (*Director*), Mr Sherk. (Division III)

[PHYSICAL SCIENCE 194. *The Earth in Time and Space*. The chemical, physical, and geological nature of the earth and its relation to the solar system and the universe. Theories of the origin of the earth, solar system, and universe. Open to a limited number of freshmen and sophomores. Lecture, three hours; laboratory and demonstration, two hours.]

BIOLOGICAL SCIENCE 195. *The Living World*. Life as exhibited in the form, function, inheritance, and evolution of living organisms. with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have presented a unit in biology for entrance. Lecture, three hours; laboratory, two hours. Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1. Mr Driver and Miss Kemp (*Codirectors*). (Division III)

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy*. For sophomores and juniors. Lec. W 2. Section meetings M T W 10, 11, 12, 2; W Th F 2, 3; Th F S 9, 10, 11. Mr Arvin (*Director*), Mr Guilloton, Mr Fisher, Mr Petersson, Mrs McKay, Mr Johnson, Mr Dorius, Mr Connelly, Mr Ellis, Mr Dabney. (Group A)

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions*. A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Th F S 10. Miss Kenyon, Mr Mann, Mr Ruiz.

INTERDEPARTMENTAL COURSES

[HISTORY AND SOCIAL SCIENCE 294b. *Contemporary India and Its Role in Asia*. This course will focus on the political, economic, and social developments in India since 1947. Mr Overstreet.]

HISTORY AND SOCIAL SCIENCE 295a. *Africa South of the Sahara*. An introductory study of recent political, economic, and social developments. Th F S 9. Miss Carter.

[PHYSICAL SCIENCE 391a. *Frontiers of Science*. A study of concepts emerging from investigations of the atomic and sub-atomic worlds, using examples from the following fields: physical, chemical, and geometrical nature of crystal structures, new particles, the wave-particle dualism. Philosophical aspects will be emphasized, in particular the relation of geometric form to knowledge of the physical world, and the relation of science to religion. Prerequisite, one year of a physical science. or permission of the director. Th F S 10. Miss Mohler (*Director*), Mrs Wrinch.]

HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493. *Soviet Russia*. A study of political, economic, social, and cultural life in the Soviet Union. Open to juniors by permission of the director. M T W 2. Mr Monas (*Director*), Mr Kassof.

ART

PROFESSORS:	CLARENCE KENNEDY, PH.D. OLIVER WATERMAN LARKIN, A.M. HENRY-RUSSELL HITCHCOCK, A.M., <i>Chairman</i> **PHYLLIS WILLIAMS LEHMANN, PH.D. ROBERT OWEN PARKS, B.F.A. RUTH WEDGWOOD KENNEDY, A.B.
ASSOCIATE PROFESSORS:	PRISCILLA PAINE VAN DER POEL, A.M. MERVIN JULES GEORGE COHEN CHARLES WHITMAN MACSHERRY, PH.D.
ASSISTANT PROFESSORS:	LEONARD BASKIN, B.A. JAY RICHARD JUDSON, PH.D.
VISITING ARTIST:	WILLIAM HUMISTON DARR, B.A.
INSTRUCTORS:	ROBERT MARK HARRIS, M.F.A. DAVID CAREW HUNTINGTON, M.A. CAROLYN FRENCH JUDSON, A.M. PETER GARLAND, B. ARCH. ANABELL THORNTON HARRIS, M.A.

The courses in art which may be taken to fulfill the distribution requirement in Group B are 11, 31a, 31b, 35, 13.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 11 and 27 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 11 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of the department, followed by discussions in small groups. W Th F 3; dis. M 2; T 10, 11, 2; Th 10, 11, 2; F 10, 11, 12, 4; S 11, 12. Members of the Department. Mr Harris (*Director*).

ART

- 31a *The Art of Greece.* Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. Open to sophomores. Th F S 9. Mrs Lehmann.
- [31b *The Art of Rome.* Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Open to sophomores. Prerequisite, 31a or permission of the instructor. Th F S 9. Mrs Lehmann.]
- 33a *Early Mediaeval Art.* Architecture, sculpture, illuminated manuscripts, and painting from Constantine to the mid-twelfth century with emphasis on the early Christian, Byzantine, Carolingian, and Romanesque periods. Open to sophomores. Recommended background, Art 11 or History 11. Th F S 11. Mr Harris.
- [33b *Gothic Art.* Architecture, sculpture, illuminated manuscripts, and painting from the mid-twelfth to the sixteenth centuries with emphasis on France, Germany, and England. Open to sophomores. Recommended background, 11, 33a, or History 11. Th F S 11. Mrs Lehmann.]
- [34a *Northern Art.* Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 10. Mr Judson.]
- 35 *The Art of the Italian Renaissance.* Development of the arts in Italy from 1290 to 1594, with special emphasis on their interrelationships and on the emergence of a consistent theory of art. Open to sophomores. Recommended background, 11 or History 11. M T W 11. Mr Kennedy and Mrs Kennedy.
- 37a *Titian and the Renaissance in Venice.* Open to sophomores. M 4; T 4-5:30. Mrs Kennedy.
- 37b *Leonardo da Vinci.* Open to sophomores. M 3-6. Mr Kennedy.
- 38a *Dutch and Flemish Art of the Seventeenth Century.* With emphasis upon painting and drawing. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 10. Mr Judson.
- 39b *Seventeenth-Century Architecture.* The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England; the beginnings of Colonial Architecture in America. Open to sophomores. Recommended background, 11 or 35. M T W 3. Mr Hitchcock.

- [311a *The Art of the Seventeenth Century in Italy, France, and Spain.* Emphasis is on the origin and evolution of pictorial traditions. Lectures and field trips. Given in alternate years. Open to sophomores. Recommended background, 11 or 35. W Th F 2. Mr Parks.]
- 311b *Art of the Eighteenth Century.* European painting, sculpture, and architecture from the Baroque to the Romantic. Open to sophomores. Recommended background, 11. M T W 12. Mr Huntington.
- 313a *The Arts in America.* The colonial period through the years of the expanding republic, with emphasis on painting. Recommended background, 11 or a course in American history. Th F S 12. Mr Larkin.
- 313b *The Arts in America.* The Civil War to the present, with emphasis on painting. Recommended background, 11 or a course in American history. Th F S 12. Mr Larkin.
- 315 *Modern Art.* Contemporary art and its backgrounds from Jacques Louis David and the French Revolution to the present. Open to sophomores by permission of the instructor. Open also for a single semester to students who have had a course abroad in nineteenth- or twentieth- century art. Recommended background, 11. M T W 10. Mrs Van der Poel.
- 316a *Oriental Art.* The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Open to sophomores. M T W 9. Mr MacSherry.
- 316b *Oriental Art.* The art of Japan, especially the painting, sculpture, architecture, and color prints. Particular attention is given to the roles of native tradition and foreign influences in the development of Japanese art. Open to sophomores. M T W 9. Mr MacSherry.
- 322a *Decorative Styles.* A survey of European and American thought and taste as expressed in interior design, furniture, and textiles from the mediaeval period to the present. Open to sophomores. M T W 12. Mrs Van der Poel.
- [326b *American Colonial Architecture and Its English Background.* Late Mediaeval, Stuart, and Georgian building. Recommended background, 11 or 239. Open to sophomores. M T W 3. Mr Hitchcock.]

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- 327 *Modern Architecture and Its Immediate Background.* Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the so-called "International Style." Recommended background, 11 or 239. Open to sophomores. M T W 2. Mr Hitchcock.
- 351 *Florentine Art 1420-1520.* An intensive four weeks' study of the original monuments of architecture, sculpture, drawing and painting, still in place in Florence, followed by a two weeks' study tour of the Italian cities where works by artists of this period who were in the Florentine orbit are to be found. *Six hours.* Given in the summer of 1959. Mr and Mrs Kennedy.
- 40b Members of the Department. Mr Larkin (*Director*).
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours of art above Grade I. *Two or three hours.*

SEMINARS

All seminars are open to juniors and seniors by permission of the instructor unless otherwise indicated.

- 42a *American Painting in the Age of Jackson.* Th 7:30. Mr Larkin.
- [42b *Criticism of Art.* Principles and practice of analyzing, interpreting, and judging works of art. Open only to senior art majors. Th 7:30. Mr Larkin.]
- 43a *Studies in Greek Sculpture.* Alternates with 44a. By permission of the instructor. T 3-5:30. Mrs Lehmann.
- [44a *The Antique and the Italian Renaissance.* The survival and rediscovery of ancient works of art and their influence on such Italian Renaissance artists as Alberti, Mantegna, Raphael, Michelangelo, Titian, Palladio. Alternates with 43a. T 3-5:30. Mrs Kennedy and Mrs Lehmann.]
- [45a *Studies in Renaissance Art.*]
- 46b *The Renaissance in Italy and Its Reflection in Art.* Open to junior and senior majors in art and history. T 3-5:30. Miss Gabel and Mrs Kennedy.
- 47a *Art of the Eighteenth Century.* T 7:30. Mr Huntington.
- 48b *Nineteenth- and Twentieth-Century Painting.* For junior and senior honors students and other qualified students. M 4-6. Mrs Van der Poel.

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- [49a *Problems in Seventeenth-Century Art in Italy, France, and Spain.* Given in alternate years. W 7:30. Mr Parks.]
- 49b *Studies in Northern Painting.* W 7:30. Mr Judson.
- 413b *Studies in Mediaeval Art.* Th 7:30. Mr Harris.
- 426a *Studies in Nineteenth-Century Architecture.* Alternates with 427a. M 7:30-10. Mr Hitchcock.
- [427a *Architecture Since 1890.* The problem of style in modern architecture. Alternates with 426a. M 7:30. Mr Hitchcock.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies. *One hour or more.*
- 55 *Art of the Italian Renaissance.* Mr Kennedy and Mrs Kennedy.
- 57a, 57b *Modern Art.*

For further information about graduate work in art, application should be made to the Chairman of the Department. Adviser of graduate study: Mr Hitchcock.

B. Studio Courses

A fee is charged for materials in 13, 239, 312a and b, 335a and b, 336a and b, 339, 341, 342a.

- 13 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts, through studio practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 10-12, 2-4; Th F 10-12. Mr Jules (*Director*).
- 210a *Drawing and Pictorial Organization.* Analysis of form in line and tone; and projects in composition, using various techniques of drawing. Prerequisite, 13 or permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Baskin.

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- 210b *Intermediate Painting.* Experimentation with color and the techniques and expressive possibilities of various painting media. Prerequisite, 210a or 335a or 336a, or permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 239 *Introduction to Architecture and Landscape.* Instruction in drafting, perspective, lettering, and surveying together with elementary planning and design problems in both fields. Th F 2-5. Mr Garland.
- [312a *Sculpture.* Methods of stone carving. Open to sophomores by permission of the instructor. Prerequisite, 13. Nine studio hours of which six must be M T 2-5. Mr Baskin.]
- 312b *Sculpture.* Work in stone carving; methods of wood carving. Open to sophomores by permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Baskin.
- 331a *Advanced Painting.* Problems in pictorial organization with emphasis on oil painting. Prerequisite, 210b or 335b or 336b. Nine studio hours of which six must be Th F 2-5. Mr Jules.
- 331b *Advanced Painting.* Individual expression in painting, using various media. Open by permission of the instructor. Th F 2-5. Mr Jules.
- 335a *Design Workshop.* Studio projects in two-dimensional visual problems using color, layout, letter forms, typography, and related design elements. Open to sophomores. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- [335b *Design Workshop.* Continuation of 335a with specialized individual projects. Open to sophomores. Prerequisite, 13, 335a or permission of the instructor. Nine studio hours of which six must be M T 2-5.]
- 336a *Graphic Arts.* Methods of print-making. Open to sophomores. Prerequisite, 13. Nine hours of which six must be M T 2-5. Mr Baskin.
- 336b *Graphic Arts.* Continuation of 336a. Open to sophomores. Prerequisite, 336a or permission of the instructor. Nine hours of which six must be M T 2-5. Mr Baskin.
- 339 *Architecture.* Further problems in planning and design together with instruction in elementary construction. Prerequisite, 239. Th F 11-1. Mr Garland.
- 341 *Landscape Architecture.* Advanced problems in landscape design. Prerequisite, 239. Th F 11-1. Mr Garland.

ART

- 342a *The Art of Photography.* A study of the effect of light and perspective on form. Lectures, demonstrations, and practice based on the use of one-minute positive cameras which, with film, will be available for student use. Practice hours to be arranged. Mr Kennedy.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in art. *Two or three hours.*
- 510 *Architecture.*
- 512 *Landscape Architecture.*
- 513a, 513b *Painting, Sculpture, Design, or Graphic Arts.* Members of the Department.

THE MAJOR

Advisers: Mr Larkin, Mr Hitchcock, Mrs Kennedy, Mrs Van der Poel, Mr Jules, Mr Cohen, Mr Judson.

Based on 11 or 13. If the major is based on 13, 11 must also be taken.

Essential Courses: 40b and eighteen semester hours in art of which at least nine must be from Division A.

Optional Courses: other courses in art; Philosophy 33; Education 411a; closely related courses in other fields.

HONORS

Director: Mrs Lehmann, first semester; Mrs Kennedy, second semester.

Prerequisite: 11

Program: an arrangement, approved by the director, of courses and seminars (or special studies) in art and related fields in preparation for general examinations.

In the senior year the candidate will present a long paper for the first semester and spend three hours in a review unit during the second term.

Examinations: one general examination; one based on specific fields; one testing the candidate's ability to analyze and interpret original works of art.

ASTRONOMY

ASSISTANT PROFESSOR: ²EDWARD OLSON, B.S.

VISITING LECTURER: ¹ALBERT PAUL LINNELL, PH.D.

TEACHING FELLOW: VIRGINIA STEVENS, A.B.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Astronomy 11 and Physical Science 194.

Students planning to major or to do honors work in astronomy should consult with the Department before the beginning of the second semester of the sophomore year. The research facilities of the Amherst College Observatory will be available to students of Smith College who are majoring or doing honors work in astronomy.

ASTRONOMY

- 11 *Introduction to Astronomy.* The development of the modern concepts of the motions and physical characteristics of the members of the solar and stellar systems will be traced from the past to the present time. General principles rather than details will be stressed. Observations of the constellations and individual objects. Lectures and discussion, three hours; laboratory, two hours, and observing. Th F S 10.
- 21a *Descriptive Astronomy.* Designed to give a general knowledge of the field. Opportunity for learning the constellations and for using the telescopes. For students who have not taken 11.
- 21b A repetition of 21a.
- 22a *Advances in Astronomy.* Recent developments of the theories of the present state and evolution of stars and stellar systems.
- [23b *Variable Stars.* Physical characteristics of the various types. Discussion of methods of observation and of obtaining periods and light curves.]
- 24b *Introduction to the History of Astronomy.* Astronomical concepts in Babylonia, Egypt, Ancient Greece, Arabia, Medieval Europe, culminating in the beginning of modern astronomy in the seventeenth and eighteenth centuries.
- [31a *Spherical and Practical Astronomy.* Theory and use of transit instrument for determination of time, latitude, and instrumental corrections. Prerequisite, Mathematics 12 or 13. Lecture and conference, two hours; observing and laboratory, four hours.]
- [31b *Spherical and Practical Astronomy.* Theory and use of the equatorial telescope. Determination of positions by means of photographic plates and the filar micrometer. Least squares. Prerequisite, 31a. Lecture and conference, two hours; observing and laboratory, four hours.]
- [34a *Introduction to Astrophysics.* Analysis of the light of the sun and stars. For students who have had approved courses in astronomy, physics, chemistry, or Physical Science 193 or 194. Lecture, three hours; laboratory and discussion, two hours.]
- [34b *Astrophysics and Stellar Astronomy.* Special problems of stars and galaxies, including motions and statistical methods of handling observational material. Prerequisite: see 34a. Lecture, three hours; laboratory and discussion, two hours.]
- [35 *Determination of Orbits.* Methods of computing orbits of comets and planets. Theory and practice. Prerequisites, 11 and Mathematics 21a and b or 22a and b.]
- 40b Synoptic Course designed to correlate the work in the major field.

ASTRONOMY

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in astronomy. *Two or three hours.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special problems in astrophysics, practical astronomy, or celestial mechanics. *Three hours or more.*

THE MAJOR

Adviser: Mr Linnell.

Based on 11, or an approved combination from 21a or 21b, 22a, Physical Science 194.

Essential Courses: 31a, 31b, 34a, 40b; Mathematics 21a and b or 22a and b.

Optional Courses: other courses in astronomy; other courses in mathematics above Grade I; courses in physics, chemistry, or geology.

HONORS

Director: Mr Linnell.

Prerequisites: 11; Physics 11 or its equivalent.

Program:

Essential Courses: 31a, 31b, 34a, 34b; Mathematics 21a and b, or 22a and b.

Optional: courses or units in astronomy, mathematics, or physics, chemistry with the approval of the director.

Half of the work of first semester of senior year will be spent on a paper in the field of astrophysics, or on a problem in the field of practical astronomy or celestial mechanics; one fourth of the second semester will be spent in review for the examinations.

Examinations: two general examinations covering the fields of general astronomy, astrophysics, practical astronomy, physics, mathematics; one in the field of concentration, which may be a partly practical examination involving techniques and manipulation of instruments.

BACTERIOLOGY AND PUBLIC HEALTH

PROFESSOR:

ELINOR VAN DORN SMITH, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

†ELIZABETH DOROTHY ROBINTON, PH.D.

INSTRUCTOR:

ELAINE GOODALE WHITBECK, A.M.

TEACHING FELLOW:

YOLANDA MARIE SEYS, DIPLÔME DE BACHELIER DE L'ENSEIGNEMENT SECONDAIRE

BACTERIOLOGY AND PUBLIC HEALTH

BACTERIOLOGY

Students planning to major in Bacteriology are advised to take Chemistry 11 or 12 and a course in Bacteriology or Zoology before the junior year.

- 22 *General Bacteriology.* A systematic study of representative groups of bacteria with emphasis on their relation to domestic, economic, and public health problems. Prerequisite, Chemistry 11 or 12. Two lectures and two two-hour laboratory periods. Lec. M T 10; lab. M W 2. Miss Whitbeck.
- 27a *General Microbiology.* Outline of the biological relationships of microorganisms to higher forms of life and the interrelationships among microorganisms. Lectures and demonstrations. M T W 12. Miss Smith.
- 27b *Microorganisms of Importance to Man.* A study of microbial activities in relation to the life of the individual and the community. Lectures and demonstrations. M T W 12. Miss Smith.
- 34 *Advanced Bacteriology and Serology.* Basic theories and applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisite, 22. One lecture and five hours of laboratory. Lec. Th 2; lab. Th 3-5, F 2-5. Miss Smith.
- 40b *Microbiology and Serology in the Twentieth Century.* Readings and discussion. Miss Smith, Miss Whitbeck.
- 41, 41a, 41b Special Studies in bacteriology and serology. By permission of the Department for senior majors who have had twelve semester hours in essential courses in the major above Grade I. *Two, three or six hours.*
- [42b *Pathogenic Fungi and Antibiotics.* Systematic studies of the higher bacteria and fungi of medical importance. Prerequisites, 22 and first semester of 34. Two lectures and two two-hour laboratory periods. Miss Whitbeck.]
- 43a *Seminar in Backgrounds of Microbiology.* A survey of the discoveries and developments in scientific thinking which culminated in the science of bacteriology. Prerequisite, 22. Miss Whitbeck.
- 44b *Journal Seminar.* A study of source materials including current periodicals in bacteriology and immunology. By permission of the instructor for students who have passed or are taking 34. *One hour.* Miss Smith.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced Studies. *One hour or more.*

BACTERIOLOGY AND PUBLIC HEALTH

55a, 55b *Problems in Bacteriology and Serology.* Two hours or more. Miss Smith.

[56b *Problems in Pathogenic Fungi and Antibiotics.* Two hours or more. Miss Robinton.]

PUBLIC HEALTH

[21b *Environmental Sanitation.* A study of air, water, and food in relation to man and his environment and the development of public health practices for their control. M T W 9. Miss Robinton.]

[32a *Concepts of Public Health.* A study of the development of the modern public health movement from the "sanitary awakening" of the nineteenth century to the present day. Emphasis will be placed on the basic ideas and activities of official and non-official organizations. M T W 9. Miss Robinton.]

[45b *Health Education* (seminar). Problems in the dissemination of accurate health information to the individual and the community. Miss Robinton.]

Adviser of graduate study: Miss Smith.

INTERDEPARTMENTAL MAJOR IN BACTERIOLOGY

Adviser to the major: Miss Smith.

Essential Courses: Chemistry 11 or 12, 21a, 31; Bacteriology 22, 34, 40b; Zoology 12 or 22.

Optional Courses: courses in chemistry, bacteriology, botany, physics, zoology, or mathematics approved by the adviser.

HONORS

Director: Miss Smith.

Prerequisites, normally taken before junior year: Bacteriology 22; Chemistry 21a; Zoology 12 or 22.

Program:

Requirements: Bacteriology 34, 43a; Chemistry 31; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, zoology, bacteriology, botany, physics, or mathematics approved by the director.

Examinations: one in chemistry, one in bacteriology, one selected according to the student's program.

BOTANY

ASSOCIATE PROFESSORS:	SARA BACHE-WIIG, PH.D. MARGARET KEMP, PH.D. KENNETH E. WRIGHT, PH.D., <i>Chairman</i>
INSTRUCTOR:	ROBINSON SHEWELL ABBOTT, PH.D.
HORTICULTURIST:	WILLIAM I. P. CAMPBELL

Among the courses which may be taken to fulfill the distribution requirement in Division III are Botany 11 and Biological Science 195.

Students planning to major in botany are advised to have a knowledge of general zoology or chemistry. See the honors program for additional preparation required.

Unless otherwise stated the prerequisite for all courses above Grade I is 11, Biological Science 195, or permission of the instructor.

Sophomores may elect Grade III courses with the permission of the instructor.

- 11 *General Botany.* A study of the life processes and structure of seed plants with emphasis upon their relationship to the needs of man. A survey of representative types of other green and nongreen plants; reproduction, heredity, evolution. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Miss Bache-Wiig, Mr Abbott.
- [22a] *Economic Botany.* Plants useful to man as a source of food, spices, beverages, drugs, shelter, fuel, textiles, and the raw materials of many industries. Two lectures and one two-hour laboratory period. Th F 9-11. Miss Kemp.]
- 27 *Horticulture.* Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Two lectures and two two-hour laboratory periods. Th F 10-1. Mr Campbell.
- [31a] *Comparative Morphology of Lower Vascular Plants.* The vegetative and reproductive structures and evolutionary development of living and extinct ferns and fern allies, preceded by a brief study of liverworts and mosses. Offered in alternate years. One lecture and five hours of laboratory. M T 2-5.]
- [31b] *Comparative Morphology of Higher Vascular Plants.* The vegetative and reproductive structures and evolutionary development of the Gymnosperms and Angiosperms. Two lectures and four hours of laboratory. M T 2-5.]

BOTANY

- 32a *Microtechnique*. Methods used in the preparation of various plant materials for microscopic study. Offered in alternate years. Six hours of laboratory. M T 2-5. Miss Bache-Wiig.
- [33a *Plant Breeding*. The principles and problems of inheritance in plants and the methods by which man obtains new varieties. Offered in alternate years. M T W 10. Mr Wright.]
- 33b *Plant Geography*. Climate and climatic plant formations of the world. Problems of distribution in relation to migration and barriers. Two lectures and one discussion. M T W 10. Miss Bache-Wiig.
- 35 *Plant Physiology*. A study of plant processes and functions. Offered in alternate years. Two lectures and two two-hour laboratory periods. M T W 11-1. Mr Wright.
- 36a *Plant Taxonomy*. A study of ferns and flowering plants with special emphasis on the Northampton region. Principles of classification. Field trips in the fall. One lecture and five hours of laboratory or field work. Th F 2-5. Mr Abbott.
- 36b *Plant Ecology*. A study of plant communities, particularly as exemplified by local vegetation. Prerequisite, Botany 36a, or permission of the instructor. Field trips in the spring, including one of two days. Two hours of lecture and four hours of laboratory or field work. Th F 2-5. Mr Abbott.
- 40a A paper correlating material from several fields of Botany. Members of the Department.
- 41, 41a, 41b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology, mycology, phycology. By permission of the Department for senior majors who have had twelve semester hours in botany above Grade I. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology, mycology, phycology, arranged in consultation with the adviser of graduate study. *One hour or more.* Miss Bache-Wiig, Miss Kemp, Mr Wright, Mr Abbott.

BOTANY

52a, 52b Selected problems in a specific field of botany assigned for investigation, experimental work, and discussion. *One hour or more.*

56a, 56b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. *One hour.* Members of the Department.

Adviser of graduate study: Mr Wright.

THE MAJOR

Adviser: Mr Wright.

Based on 11 or Biological Science 195.

Essential Courses: 40a and eighteen hours in botany of which at least twelve must be above Grade II.

Optional Courses: other courses in botany above Grade I; courses in bacteriology, chemistry, geology, physics, and zoology.

HONORS

Director: Miss Bache-Wiig.

Prerequisites: 11; Chemistry (one year in preparatory school or college).

Program:

Requirements: 36a (taken before junior year if possible); 31a, 31b, 35; six hours of Grade IV or V in botany, involving a problem and a paper; three hours of directed reading and review.

Optional: courses approved by the director.

Examinations: a general examination covering major fields of botany; one in identification and interpretation of materials and in application of techniques; one in the special field of the candidate.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	STEPHEN JULIUS TAUBER, PH.D.
INSTRUCTORS:	ESTHER KRIKORIAN, PH.D. PHILOMENA GLORIA GRODZKA, M.S.
TEACHING FELLOWS:	MARY ANN DANKLEFF, B.A. ANN TITTERTON, A.B. DEMET HATICE DINGER, A.B. OYA KORMAN, B.S.
RESEARCH FELLOW:	MARGIE DEBRA BURT, B.A.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Chemistry 11, 12, and Physical Science 193, 194.

Students who are planning to major in chemistry should elect 11 or 12 in freshman year. They are advised to complete Mathematics 12 or 13 the first year. For additional preparation for honors work see that program.

- 11 *General Chemistry.* A basic course with emphasis on the relationships of the properties of matter to atomic and molecular structure. The development of ideas and principles is stressed. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M Th 2-5. Mr Durham, Miss Krikorian.
- 12 *Principles of Chemistry.* An intermediate course centered on the study of basic concepts and their relations to the behavior of the more common elements and compounds. In the second semester the principles of equilibrium are applied to inorganic qualitative analysis. This course is designed for students who are especially interested in chemistry as a basis for further study in science and who offered a unit of chemistry for entrance. Two lectures, one discussion, and one three-hour laboratory. Lec. Th F S 10; lab. T F 2-5. Mr Sherk, Miss Krikorian, Miss Grodzka.
- 12b The second semester of 12 for majors who have taken 11.
- 21a *Quantitative Analysis.* Standard volumetric and gravimetric methods of analysis. Prerequisite, 11 or 12. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T F 2-4. Miss Grodzka.
- 21b *Introductory Theoretical Chemistry.* Study of the principles of chemical behavior. An intermediate course for students planning to continue a study of chemistry. Prerequisite, 21a. Three lectures and one two-hour laboratory period. Lec. Th F 12 and one hour to be arranged; lab. Th 2-4. Miss Grodzka.

CHEMISTRY

- 31 *Organic Chemistry.* A systematic study of aliphatic and aromatic reactions. The fundamental course for all majors in sciences requiring organic chemistry. Prerequisite, 11 or 12; open to sophomores by permission of the instructor. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M Th 2-5. Mr Soffer.
- 34a *Advanced Inorganic Chemistry.* Selected topics with emphasis on structural considerations. Laboratory practice in procedures of inorganic synthesis. Prerequisite, 21b. Three lectures and one three-hour laboratory period. Lec. Th F 11 and one hour to be arranged; lab. M 2-5. Mr Sherk.
- 38b *Instrumental Methods.* A theoretical and practical study of the applications of various optical and electrical instruments to problems of analysis and structure. Prerequisite, 21b. One lecture and six hours of laboratory. Miss Grodzka.
- 40b Integrating Paper. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Chemistry. *Two or three hours.*
- [42a *Biochemistry.* Selected topics of current biochemical interest. Prerequisite, 31. Two lectures and one three-hour laboratory period. Lec. Th F 10; lab. to be arranged.]
- [42b *Medicinal Chemistry.* Advanced organic chemistry of natural and synthetic compounds used in medicine. Prerequisite, 31. Two lectures and one three-hour laboratory period. Lec. M T 11; lab. Th 2-5.]
- 43 *Physical Chemistry.* Theoretical chemistry, including the properties of matter in various states, thermodynamics, equilibrium, kinetics and electrochemistry. Prerequisites, 21b, Mathematics 12, and Physics 11, or by permission of the instructor. Open to juniors. Two lectures, discussion, and one three-hour laboratory period. Lec. and dis. M T W 9; lab. T 2-5. Mr Durham.
- 45a *Organic Qualitative Analysis.* The separation, characterization, and identification of organic substances; theory and practice. Prerequisite, 31. Open to juniors. One lecture and two three-hour laboratory periods. Lec. hour to be arranged; lab. Th F 2-5. Mr Tauber.
- 46b *Structural Theories.* Study of theories of atomic and molecular structure and their relation to physical and chemical properties. Prerequisites, 31, 21b, or permission of the instructor. Mr Tauber.

CHEMISTRY

Graduate Courses

These courses are designed mainly for graduate students, but, with the proper prerequisites, are open to seniors by permission. It is suggested that a senior majoring in chemistry take at least one of these courses.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special Studies. (1) Advanced Organic Preparations; (2) Quantum Chemistry; (3) Contemporary Literature; (4) Heterocyclic Natural Products; (5) Theory of Solutions; (6) Electrochemistry. *One hour or more.*

55a *Advanced Physical Chemistry.* A treatment of selected topics including quantum chemistry, statistics and chemical thermodynamics. Prerequisite, 43 or its equivalent. Miss Krikorian.

55b *Advanced Physical Chemistry.* A continuation of 55a including kinetics, photochemistry, surface chemistry, catalysis, and radiochemistry. Prerequisite, 55a or its equivalent. Miss Krikorian.

58a *Organic Reactions.* An integrative review of organic reactions with the introduction of selected theoretical and stereochemical problems. For students who have had or are taking 45a or its equivalent. Lectures and discussion. Mr Tauber.

59b *Carbocyclic Natural Products.* The chemistry of terpenic and steroid substances, with particular emphasis upon methods of structural investigation and synthesis. Prerequisite, 45a or its equivalent. Lectures and discussion. Mr Soffer.

Adviser of graduate study: Mr Soffer.

THE MAJOR

Advisers: Members of the Department.

Based on 21b. Students who have taken 11 must also take the second half of 12 before their senior year.

Essential Courses: 31, 40b, 43, 45a, and three additional semester hours in chemistry. Six hours in physics. In the senior year at least twelve semester hours must be taken in the Department.

Recommended Courses: Mathematics 21a or 22a, German 11.

Optional Courses: courses in chemistry above Grade II, Geology 324a, Bacteriology 22, 34; Zoology 32a, and 32b; courses in mathematics and physics with the approval of the adviser.

The program recommended above meets the requirements of the American Chemical Society for eligibility for professional standing.

CHEMISTRY

HONORS

Director: Mr Durham.

Prerequisite: 21b. Students who have taken 11 must also take the second half of 12 before their senior year.

Program:

Essential Courses: 31, 43, 45a, and the Honors Unit. Six semester hours in physics and Mathematics 12 or 13 are required unless taken previously. Mathematics 21a or 22a and German 11 are recommended. The Honors Unit consists of three semester hours each semester of the senior year to be spent on an individual problem, paper, and review.

Examinations: one in inorganic chemistry and qualitative analysis; one in organic chemistry and related subjects; one in physical chemistry and quantitative analysis.

CLASSICAL LANGUAGES AND LITERATURES

ASSOCIATE PROFESSORS:

GEORGE EDWARD DIMOCK, JR., PH.D.

HELEN H. BACON, PH.D., *Chairman*

INSTRUCTORS:

EDWARD WASHBURN SPOFFORD, A.M.

MICHAEL COURTNEY JENKINS PUTNAM, PH.D.

The courses in the Department which may be taken to fulfill the distribution requirement in Group A are Greek 12a and b, 21a, 22b, 23a, 24b, Latin 14a and b, or six hours chosen from Classics 18a, 18b, 27a, 29b.

Students planning to major in classics are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

GREEK

The prerequisite for courses of Grade III is 22b or 24b, or permission of the instructor.

- 11 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. *Three hours each semester.* M T W Th F 9. Miss Bacon.
- 12a *Plato: Selected Dialogues.* Prerequisite, two units in Greek or 11. W Th F 2. Mr Dimock. (L)
- 12b *Homer.* Prerequisite, 12a or permission of the instructor. W Th F 2. Mr Putnam. (L)

CLASSICAL LANGUAGES & LITERATURES

- [16 *Prose Composition*. Prerequisite, two units in Greek or 11. *One hour each semester. To be given 1960-61.*]
- 21a *The Drama: Euripides and Sophocles*. Prerequisite, 12b or three units in Greek. Miss Bacon. (L)
- 22b *Homer, Advanced Course*. Prerequisite, 21a or its equivalent. Mr Dimock. (L)
- [23a *Herodotus*. Prerequisite, three units in Greek or 12b. *To be given 1960-61. (L)*]
- [24b *The Drama: Aeschylus and Aristophanes*. Prerequisite, 23a or its equivalent. *To be given 1960-61. (L)*]
- [31a *Greek Historians*. *To be given 1960-61.*]
- [32b *Drama, Advanced Course*. *To be given 1960-61.*]
- 33a *Selections from Lyric and Pastoral Poets*. Mr Spofford.
- 34b *Plato, Advanced Course*. Miss Bacon.
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours.*
- [Religion 25a *Greek New Testament*.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced studies in Greek literature arranged on consultation. *One hour or more.*
- Adviser of graduate study: Mr Dimock.

LATIN

The prerequisite for courses of Grade III is 22b or 24b, or permission of the instructor.

- 11 *Elementary Course*. Introduction to the language; selections from Latin literature. Five class hours. *Three hours each semester. T W Th F S 9.* Mr Spofford.
- 12a *Poetry of Ovid and Related Prose*. Prerequisite, two units in Latin or 11. *Th F S 10.* Mr Dimock. (L)

CLASSICAL LANGUAGES & LITERATURES

- 12b *Vergil, Aeneid.* Prerequisite, 12a or permission of the instructor. Th F S 10. Mr Putnam. (L)
- 14a *Poetry of Catullus and Related Prose.* Prerequisite, three units in Latin. Th F S 11. Mr Putnam. (L)
- 14b *Vergil, Eclogues; Horace, Odes and Epodes.* Prerequisite, 14a or permission of the instructor. Th F S 11. Mr Spofford. (L)
- 21a *Medieval Latin.* Mr Putnam.
- 22b *Roman Elegiac Poetry.* Mr Spofford.
- [23a *Latin Historians.* To be given 1960-61.]
- [24b *Latin Comedy.* To be given 1960-61.]
- 26 *Prose Composition.* Prerequisite, 14b or permission of the instructor. One hour each semester. Mr Putnam.
- [33a *Vergil, Advanced Course.* To be given 1960-61. Miss Bacon.]
- [34b *Roman Satire.* To be given 1960-61.]
- 35a *Cicero, Advanced Course.* Mr Putnam.
- 36b *Lucretius.* Mr Dimock.
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. Two or three hours.
- 50, 50a, 50b Research and Thesis. Three or six hours.
- 51a, 51b Advanced studies in Latin literature arranged on consultation. One hour or more.
- Adviser of graduate study: Miss Bacon.

CLASSICS

- 18a *Greek and Roman Epic and Drama in Translation*, including such works as Homer's *Odyssey*, Aeschylus' *Oresteia*, Sophocles' *Antigone* and *Electra*, Euripides' *Alcesteis* and *Medea*, Vergil's *Aeneid*. Th F S 11. Mr Dimock.
- 18b *Greek and Roman Prose and Shorter Verse Forms in Translation*, including such works as Herodotus' *Histories*, dialogues of Plato, selected *Lives* of Plutarch, Greek lyrics, odes of Pindar; Livy's *Ab Urbe Condita*, poems of Catullus, Horace and Ovid. Th F S 11. Mr Dimock.

CLASSICAL LANGUAGES & LITERATURES

- 27a *Classical Romance, Pastoral, and Satire*, including such works as Longus' *Daphnis and Chloe*, Petronius' *Satyricon*, Apuleius' *Golden Ass*, Vergil's *Eclogues* and *Georgics*, selected *Lives* of Plutarch. Open to freshmen exempted from English 11. Th F S 12. Mr Spofford.
- 29b *Ancient Drama in Translation*, including a number of comedies of Aristophanes, and a large selection from those Greek tragedies not usually read in school and college. Open to freshmen exempted from English 11. Th F S 12. Miss Bacon.
- 40b Review Unit. Required of all majors in the Department.

THE MAJOR IN CLASSICS

Advisers: Mr Dimock, Miss Bacon.

Based on Greek 11 and Latin 14a and b (or, by permission of the adviser, Latin 12b).

Essential Courses: Greek 16, Latin 26, Classics 40b, eighteen semester hours chosen from Greek and Latin courses of Grade II or above.

Optional Courses: other courses in Greek; courses in Latin above Grade I; allied courses in other departments.

A major in Greek or in Latin may be arranged on consultation with the chairman.

HONORS

Director: Mr Dimock.

Program: to be arranged with the director.

Examinations: one will test the candidate's ability to read Greek and Latin; one, her general knowledge of Greek and Latin literature and classical culture; and one, her mastery of her field of concentration.

ECONOMICS

PROFESSOR:

†DOROTHY CAROLIN BACON, PH.D., *Chairman*

WILLIAM ALLAN NEILSON

RESEARCH PROFESSOR:

²ALVIN HARVEY HANSEN, PH.D., LL.D.

ASSOCIATE PROFESSORS:

STANLEY CURTIS ROSS, A.B., LL.D.

ELEANOR MARTHA HADLEY, PH.D.

GEORGE FISK MAIR, PH.D., *Acting Chairman, 1959-1960*

ASSISTANT PROFESSORS:

KENNETH HALL MCCARTNEY, PH.D.

HARMON HAYDEN HAYMES, PH.D.

INSTRUCTOR:

VLADIMIR L. STOIKOV, M.S.

Among the courses which may be taken to fulfill the distribution requirement in Group E are Economics 21, Social Science 192.

ECONOMICS

- 21 *The Structure and Functioning of the American Economy.* An introduction to economic principles through the study of economic institutions and problems, including such topics as the production and distribution of goods, the value of money, the level of employment and income, and international trade. Open to freshmen by permission. Lec. W 12. Sect. M T 10, 12, 2; Th F 9, 10. Mr McCartney (*Director*) and members of the Department.
- 21b The second semester of 21 for students who have passed Social Science 192. Open also to sophomores who are taking Social Science 192.
- [22a *Basic Economics.* A study of the economic factors that determine how and to what extent the resources and manpower of the country are used to produce goods and services. Open only to students who have passed Social Science 192. M T W 10. Mr Mair.]
- 24a *Principles of Accounting.* The theory of debits and credits. The organization and use of accounting records, the construction and interpretation of balance sheets and statements of revenue and expense, and selected special topics. Th F 11, Th 3-5. Mr Mair.
- 28a *Basic Statistics.* Tabulation, graphic presentation, averages, measures of dispersion, simple correlation, and sampling. Lec. Th F 2; two laboratory sections, M or F 3-5 and two hours to be arranged. Mr Ross.
- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Lampard, first semester; Mr McCartney, second semester.
- 214a *Personal Finance and Consumer Economics.* Some bases for economic decisions, and methods of economic response at the individual and family level. For freshmen by permission of the instructor. Not open to students who have taken or are taking Economics 21 or 22a. Lec. Th 9. Sect. M W 9, F S 9. Mr Ross.
- 31a *Advanced General Economics.* The theory of the firm, the household, and the market, and its application to the American economy. Recommended for juniors majoring in the department. M T W 10. Mr Mair.
- [31b *Advanced General Economics, continued.* Further topics, with particular emphasis on the determination and effects of the level of national income.]

ECONOMICS

- 32a *Labor Problems.* Historical development of unions in the United States; their structure and government; the process, content, and issues in collective bargaining; selected aspects of government regulation of labor relations. Open to sophomores who have passed 21. M T W 9. Mr McCartney.
- 33b *Economic Theory of Labor.* Analysis of the labor market; the process of wage determination; problems of employment and unemployment; unions and national economic policy. Prerequisite, 21. M T W 9. Mr McCartney.
- 35 *Money, Banking, and Economic Fluctuations.* American and foreign monetary and financial systems, the foreign exchanges, problems of inflation, depression and levels of economic activity, the changing role of the government. Prerequisite, 21 or 22a. M T W 3. Mr Haymes.
- [36a *Public Finance.* Taxation, government spending, and borrowing. Economic effects and current controversies. Prerequisite, 21 or 22a. Th F S 11.]
- 38b *Economic Statistics.* Multiple correlation, index numbers, time series, and selected applied topics. Open to sophomores. Prerequisite, 28a. Lec. Th F 2; four laboratory hours, M or Th 3-5 and two hours to be arranged. Mr Ross.
- 39a *Economic Aspects of Current Social Problems.* Economic issues in the social security programs, provision of health services, and housing. The special problem of migratory agricultural labor. Income distribution in the United States. Prerequisite, 21, Social Science 192, or permission of the instructor. M T W 11. Miss Hadley.
- 312b *Business Enterprise.* The organization, financing, and management of business in the United States. Problems and policies. Prerequisite, 21 or 22a. M T W 11. Miss Hadley.
- [313b *Government and Business.* The development of public control of business and agriculture in the United States. Problems of present-day regulation. M T W 11. Miss Hadley.]
- 315b *International Economics.* Postwar international economic problems, their historical and theoretical backgrounds, foreign economic policies of the United States. Prerequisite, 21 or, by permission of the instructor, Social Science 192. Th F S 10. Mr Stoikov.
- [316b *International Economics.* A more detailed study of the current international scene and the foreign economic policy of the United States. Prerequisite, 315a.]

ECONOMICS

- 319a *Comparative Economics: Modern Industrial Systems*. Basic economic issues in capitalism, socialism, communism, and fascism, and their relationships to political and social problems. Particular attention to the United States, Great Britain, and the U.S.S.R. Prerequisite, 21, 22a, or permission of the instructor. M 12 T 4-6. Mr Mair.
- [320b *Comparative Economics: Underdeveloped Areas*. A comparative study of the economies of selected underdeveloped countries in their political and social setting. Problems of development. Japan as a unique case of non-Western industrialization. Prerequisite, 21 or permission of the instructor; 319a recommended but not required. Th 4-6.]
- 324b *Population Problems and Policies*. The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. M 12 T 4-6. Mr Mair.
- 40b *Major Economic Issues*. Required of all senior majors. M 7:30-9:30. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in economics above Grade I. *Two or three hours*.
- 42a *Comparative Labor Movements* (seminar). Study of origins, development, and present status of labor movements in selected countries, with special attention to problems of unions in underdeveloped areas; role and functions of international organizations. Mr McCartney.

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology*. Church and State in the Modern World. A study of the relations between the Christian churches and political authority since the French Revolution. Examples will be chosen from the recent history of selected countries in Europe and Latin America as well as of the United States. Mr Lewy (*Director*), Mr Ruiz, Mr Gessert.

THE MAJOR

Advisers: Mr Ross, Miss Hadley, Mr Mair, Mr McCartney.

Based on 21 or 22a.

Essential Courses: 40b and eighteen semester hours in economics above Grade II.

ECONOMICS

Optional Courses: nine semester hours in economics or appropriate courses in other departments.

Majors may spend the junior year abroad if they meet the college requirements as stated under the description of the Junior Year Abroad.

HONORS

Director: Mr McCartney.

Prerequisite: 21.

Program: 31a and the unit in *Economic Thought* are essential for honors, and count as six of the required eighteen hours of Grade III work. In addition to the eighteen hours, there is required in the first semester of the senior year a long paper to count as three or six hours, and in the second semester three hours of review.

Examinations: general theory and its applications; questions on individual fields in economics; questions coordinating the field of the major.

Units

Economic Theory. Its development and applications. *Six hours* (three each semester). Mr Stoikov.

Topics in Economic Stability and Growth. Second semester. *Three hours.* Mr Haymes. [*Economic Thought.* Selected major figures in the development of economics. Second semester. *Three hours.* To be given in 1960-1961.]

[*Topics in Money and Banking.* First semester. *Six hours.* Miss Bacon.]

[*Comparative Economic Systems.* First semester. *Three hours.* Mr Mair.]

[*Labor Problems.* First semester. *Three hours.* Mr McCartney.]

EDUCATION & CHILD STUDY

PROFESSOR:	CLIFFORD RICHARDSON BRAGDON, A.M., ED.M., <i>Chairman</i>
ASSOCIATE PROFESSORS:	**HELEN EVANGELINE REES, ED.D., Director of the Smith College Day School DURA-LOUISE COCKRELL, PH.D., Director of the Elisabeth Morrow Morgan Nursery School
LECTURERS:	RITA ALBERS JULES 2JOSEPH CONTINO, A.M. 2ELSIE HARRIET KOESTER, A.M. 2MARGARET SHORTLIDGE, A.M. RONALD JEREMIAH DARBY, ED.M. ESTHER LEAH WEIN, ED.M. GEORGE T. PRATT, M.ED., L.H.D. JOY MERRITT UNSWORTH, A.M.
INSTRUCTOR:	

EDUCATION & CHILD STUDY

The following are recommended as background courses to students planning to major in education and child study: Biological Science 195, Psychology 11a, 12, 25b, Social Science 192, Sociology 11a, 27b, Zoology 11 or 12.

An opportunity for guidance in reading and study skills is offered to a limited number of students. Hours to be arranged.

Students who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the department as early as possible during their college course. A five-year program is required by certain states for teachers in secondary schools.

21a *Foundations of Education.* Historical and philosophical background of modern education. M T W 3. Mr Bragdon.

22a *Educational Psychology.* A study of psychology and human development as they relate to educational goals, the educative process, and personality and adjustment. M T W 12. Miss Rees.

[22b A repetition of 22a. M T W 2.]

23a *Child Psychology.* A study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Prerequisite, Psychology 11a or 12, or Education 22a or b. M T W 9, 10. Mr Teevan, Miss Wardwell.

23b A repetition of 23a. Open to freshmen who have passed Psychology 11a. Th F S 10, 11. Mr Teevan, Miss Wardwell.

24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen who have passed Psychology 11a. Prerequisite, Psychology 11a or 12 or Education 22a or b. Lec. M T 9; dis. W 9, 10. Mr Teevan.

[31a *The Child in Modern Society.* Place of the young child in society; social and educational agencies concerned with child welfare; mental hygiene of early childhood. Directed observations. Open to sophomores by permission of the instructor. Th F 10 and one observation period. Miss Cockrell.]

32b *Foundations of Secondary Education.* Characteristics of the secondary school pupil; present functions and organization of secondary schools; curriculum. Open to sophomores by permission of the instructor. M T W 2. Mr Bragdon.

EDUCATION & CHILD STUDY

- 34a *The Preschool Child.* A study of the growth, development, and guidance of the young child. Systematic observation in nursery school. Recommended background, 23a or b, or 22a or b. Th F 11 with morning observation periods to be arranged. Miss Cockrell.
- 34b A repetition of 34a. Th F 10. Miss Cockrell.
- 35a *The Elementary School Child.* A study of the growth, development, and guidance of children of elementary school age in school and at home. Systematic observation in the laboratory school. Recommended background, 21a and 22a or b or 23 a or b. Two class hours and observation. M W 9. Mrs Unsworth.
- 35b A repetition of 35a. M W 11. Mrs Unsworth.
- 36b *American Education.* Evolution of American educational thought and institutions; development of American education related to the growth of the nation. Open to sophomores who have had a course in education. M T W 10. Mr Bragdon.
- 37a *Comparative Education.* Influence of national culture upon education; contemporary policy and problems of education in England, France, Italy, and the U.S.S.R.; research on other national systems. Prerequisite, 21a or History 11. Open to sophomores by permission of the instructor. M T W 2. Mr Bragdon.
- [38b *Education and Contemporary Social Philosophy.* An examination of the impact of recent socio-economic changes on higher and secondary education in the United States. M T W 3.]
- [39a *Educational Measurements.* Study of measures designed to improve instruction and assist pupil adjustment in school. Practice in construction, administration, and interpretation of tests. T 4-6 and a laboratory period to be arranged.]
- 40a Senior Unit, designed to correlate and unify the student's work in her major field. M 4-6. Mr Bragdon and members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in education above Grade I. Two or three hours.
- [42b *Advanced Educational Psychology.* Selected problems, reports, and discussion. By permission of the instructor. Recommended background, 22a or b and one course in psychology above Grade I. Miss Rees.]

EDUCATION & CHILD STUDY

- 43 *Preschool Education.* Procedures and curriculum in the modern nursery school and kindergarten. Two class hours and two periods of participation. Prerequisite, 34a or b and permission of the instructor. *Four hours.* Th 4. Miss Cockrell.
- 44a *Seminar in Child Psychology.* Selected problems, reports, and discussion. Prerequisite, 23a or b. Mr Teevan.
- 45 *Elementary Education.* Procedures and curriculum in the modern elementary school, kindergarten through grade eight. Two class hours and two periods of participation in elementary schools. Prerequisites, 35a or b and permission of the instructor. *Four hours.* Th 4. First semester, Miss Rees, Miss Wein; second semester, Miss Shortlidge, Mrs Koester, Miss Wein.
- 46 *Secondary Education.* Procedures and curriculum in secondary schools. Two class hours and one period of observation and directed practice. Prerequisites, 32b and permission of the instructor. T 4. Mr Bragdon, Mr Darby.
- [410b *Advanced Child Study.* Demonstration of and practice in techniques for the study of children. Each student plans and carries out an individual project. One period for discussion, two laboratory periods. Prerequisite, Education 34a or b or 35a or b, or Psychology 23a or b and permission of the instructor.]
- 411a *Art Education.* Theory and practice of art education in the elementary school. By permission of the instructor. Recommended background, Art 13. T 7:30. Mrs Jules.
- 411b Repetition of 411a. T 7:30. Mrs Jules.
- 412b *Music Education.* Theory and practice of music education in the preschool and elementary grades. For majors or by permission of the instructor. M 7:30. Mr Contino.
- Spanish 32b *Teachers' Course.*
- French 42a, 42b *Teachers' Course.*
- Speech 48a *Teachers' Course.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies: special problems in education. *One hour or more.*
- 52a *Problems of American Education.* Required of all candidates for the Master's degree in education. Th 4. Mr Bragdon.

EDUCATION & CHILD STUDY

53b *Preschool and Parent Education.* T 4. Miss Cockrell.

54a *Elementary Education.* T 2. Miss Rees.

55a *Secondary Education.* Mr Bragdon.

[56b *Higher Education.* History and present status in the United States. *One or more hours.*]

57 *Problems in the Education of the Deaf.* Historical development of education of the deaf, the physiological and psychological problems of deaf children, and problems of curriculum, with emphasis on language. By permission of the instructor. Mr Pratt.

59, 59a, 59b *Practice Teaching.* Given under the supervision of members of the Department. For qualified graduate students by permission of the Department. *One hour or more.*

510a *Child Development.* T 4. Miss Cockrell.

Adviser of graduate study: Mr Bragdon.

THE MAJOR

Students majoring in the Department may concentrate (1) in child development as preparation for teaching in nursery or elementary schools, or (2) in the history, philosophy, or psychology of education. Others may prepare for graduate work leading to an advanced degree for teaching in secondary schools.

Advisers: members of the Department.

Based on 21a or 22a or b *and* one course in education and child study, psychology, sociology, or Social Science 192.

Essential Courses: 40a and eighteen semester hours in education.

Optional Courses: other courses appropriately related.

HONORS

Director: Mr Bragdon.

Prerequisites: courses listed as bases for the majors.

Program and Examinations: detailed plans of study may be had on consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:

- 1902 ESTHER CLOUDMAN DUNN, PH.D., LITT.D.
- 1922 NEWTON ARVIN, A.B.
- 92 CHARLES JARVIS HILL, PH.D.
- 51 HELEN WHITCOMB RANDALL, PH.D.
- 39 DANIEL AARON, PH.D.
- 37 ALFRED YOUNG FISHER, DOCTEUR DE L'UNIVERSITÉ DE DIJON

- 30 **KATHERINE GEE HORNBEAK, PH.D.
- 34 †ELEANOR TERRY LINCOLN, PH.D.
- 30 EDNA REES WILLIAMS, PH.D.

VISITING PROFESSOR:

- 46 ELIZABETH DREW, B.A., *Chairman*

ASSOCIATE PROFESSORS:

- 50 ROBERT TORSTEN PETERSSON, PH.D.
- 51 †GEORGE GIBIAN, PH.D.
- 58 RAYMOND JOEL DORIUS, PH.D.
- 58 KENNETH AMOR CONNELLY, JR., PH.D.
- 48 †MARIE BORROFF, PH.D.

LECTURER:

- RUTH CAPERS MCKAY, PH.D.

ASSISTANT PROFESSORS:

- 52 WENDELL STACY JOHNSON, PH.D.
- SYLVAN SCHENDLER, PH.D.
- 57 WILLIAM HOOVER VAN VORIS, PH.D.
- 56 †ANTHONY EVAN HECHT, A.M.

- 58 FRANK HALE ELLIS, PH.D.

INSTRUCTORS:

- 37 SALLIE HARRIS SEARS, M.A.
- 38 LORNA DAISY YOUNG, PH.D.
- 52 ELIZABETH GALLAHER VON KLEMPERER, PH.D.
- 37 JOAN MAXWELL BRAMWELL, M.A.
- 59 LEWIS MERIWETHER DABNEY, A.M.
- 50 FRANCIS E. X. MURPHY, M.A.
- 59 JACKIE MARIE PRITZEN, M.A.
- 50 SALLY YEATES SEDELOW, A.M.

The courses in English which may be taken to fulfill the distribution requirement in Group A are 21, 23, 25, 211, 212.

Grade 3 courses are open to sophomores who have completed three hours of work in Division A or in General Literature 291.

Students who are planning a major in English are urged to take related courses in classics, history, and philosophy.

- 11 *Freshman English.* Practice in expository and critical writing in connection with the study of selected literary texts. Members of the Department, Mr Schendler (*Director*).

ENGLISH LANGUAGE & LITERATURE

A. Language and Literature

- 21 *The History of English Literature.* An analysis through lectures, reading, and discussion of representative authors and works, chosen for the purpose of illustrating the temper and the controlling ideas of successive periods from the earliest period to the present day. Lec. Th F 10; dis. F 12, S 10. Mr Hill, Miss Williams, first semester; Mr Johnson, Mr Ellis, second semester.
- 23 *Forms of the Drama.* A study of the principal forms, European and Asiatic, with special attention to the different kinds of theatre and to the greatest plays and playwrights from Aeschylus to Hebbel. M T W 3. Mr Eliot.
- [25 *Literature of the Middle Ages.* Motifs and ideas in important works, including the *Consolation of Philosophy*, the *Nibelungen Lied*, Irish folk tales, the *Song of Roland*, Arthurian romance, medieval lyrics, and the *Divine Comedy*. Reading based on translations.]
- 211 *Literature of the Nineteenth and Twentieth Centuries.* Open only to sophomores. M T W 10. Mr Johnson, first semester; Miss Drew, second semester.
- 212 *American Literature to 1900.* M T W 9. Mr Arvin.
- 30a *The Grounds of Literary Judgment.* Various approaches to the study of literature. This course is designed to provide a basis for the work of the major. Open only to juniors majoring in English. M T W 3, W Th F 3. Mr Dorius (*Director*) and members of the Department.
- 31a *Chaucer.* A study of his art, and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 12. Miss Williams.
- 31b *Chaucer.* Repetition of 31a. M T W 12. Mr Johnson.
- 32b *Medieval Literature.* A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period. Prerequisite, 31a or 31b. M T W 10. Miss Williams.
- 33a *The English Language.* Main historical developments from the beginning to 1400, illustrated from readings in each period. Studies in literary interpretation and style. M T W 9. Miss Williams.
- 33b *The English Language.* Continuation of 33a from 1400 to the present. Prerequisite, 33a. M T W 9. Miss Williams.
- 34a *Old English.* A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W Th F 2. Miss Williams.

ENGLISH LANGUAGE & LITERATURE

- 34b *Old English.* A study of Beowulf. W Th F 2. Miss Williams.
- 35b *Sixteenth-Century Literature.* Prose and poetry from Wyatt through the poems of Shakespeare, studied in the light of ideas and forms characteristic of the Renaissance. Th F S 11. Mr Dorius.
- 36a *Shakespeare:* Romeo and Juliet, I Henry IV, II Henry IV, Julius Caesar, King Lear, Macbeth, As You Like It, The Tempest. M T W 12. Mr Fisher.
- 36b *Shakespeare:* Richard II, Hamlet, Othello, Twelfth Night, Measure for Measure, Coriolanus, The Winter's Tale. M T W 12. Mr Hill.
- 38b *Seventeenth-Century Prose.* The art and ideas of the major writers, especially Donne, Browne, Milton, Taylor, and Pepys; a study of the change from Renaissance to modern style and of the nature of the Baroque in literature. Th F S 11. Mr Petersson.
- 39a *Seventeenth-Century Poetry from Donne to Dryden.* Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th F S 9. Mr Dorius.
- 39b *Milton.* The major and minor poems with attention to current problems in interpretation and criticism. Th F S 9. Mr Petersson.
- 310a *Augustan Satire.* Theories and techniques of satire studied in the work of Dryden, Addison, Steele, Pope, Swift, and Gay. M T W 12. Miss Hornbeak.
- 310b *The Age of Johnson.* Biography, essay, criticism, poetry. W Th F 3. Mr Ellis.
- 311b *Restoration and Eighteenth-Century Drama, 1660-1800.* A close study of the backgrounds, modes of production, and texts of significant plays. M T W 3. Mr Van Voris.
- 314a *The English Novel.* Defoe to Jane Austen. M T W 11. Mr Hill.
- 314b *The English Novel.* Dickens to E. M. Forster. M T W 11. Mr Hill.
- 317a *Victorian Prose and Poetry.* Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossetts, Swinburne, and Hopkins. Th F S 11. Mr Johnson.
- 321a *Transcendentalism in American Literature.* Emerson, Thoreau, and Whitman. M T W 9. Mr Aaron.

ENGLISH LANGUAGE & LITERATURE

321b *American Fiction from 1830 to 1900.* M T W 9. Mr Aaron.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in English above Grade I. *Two or three hours.*

43b *Some Romantic Poets: Byron, Wordsworth, Coleridge, and Others.* Their poetical and literary theories and innovations; the background both in England and on the Continent, including political and social influences. Th F S 11. Miss Dunn.

44a *Twentieth-Century British Literature.* Joyce, Yeats, Eliot. Open only to seniors. Th F S 10. Miss Drew.

46a *Shaw and some of his Contemporaries.* Important plays, British, Irish, and American, of the last hundred years. Th 4-6, F 4. Mr Eliot.

47b *The Twentieth-Century American Novel.* Open only to seniors. Not open to students who have had or are taking 48b. Th F S 10. Mr Schendler.

48b *Idea and Form in Twentieth-Century Fiction.* Open only to seniors. Not open to students who have had or are taking 47b. Th F S 11. Mr Connelly.

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Undergraduate Seminars

By permission of the instructor. Limited to twelve students.

[412a *The Pastoral Tradition.* Primitive, classical, religious, philosophical, and political adaptations of pastoral themes and conventions in lyric poetry, romance, elegy, allegory, the drama, and satire. Th 4-6. Miss Lincoln.]

413b *English Drama from 1560-1642.* Shakespeare's predecessors and contemporaries. W 7:30-9:30. Mr Fisher.

[414b *Biography, Memoirs, Journals, and Letters of the Eighteenth Century.* A study of these types with emphasis on literary values and the reflection of personality, contemporary ideas, and social background. Selected topics based on the writing of such representative figures as Swift, Lady Mary Wortley Montagu, Johnson, Boswell, Walpole, Chesterfield, Gibbon, Gray, Cowper, Mrs Thrale, Fanny Burney, Wesley. Th 7-9. Miss Hornbeak.]

415b *Literary Criticism from Dryden to the Present.* A study of neo-classical, romantic, and contemporary criticism. Th 4-6. Mr Arvin.

ENGLISH LANGUAGE & LITERATURE

- 416a *Theories of Tragedy*, as exemplified in ancient, Elizabethan, neo-classical, and modern critics and dramatists. Mr Schendler.
- 416b *The Comic*. Theories of humor; comedy of situation, character, language; great comic figures. Examples of comedy in verse, prose, and drama, drawn primarily from English literature. T 4-6. Mrs von Klemperer.
- 417a *Major Figures in American Literature of the Nineteenth Century*. Subject for 1959-60: Henry James. Open only to seniors. Th 4-6. Mr Arvin.
- 418a *American Literary Movements, 1900-1920*. Developments in fiction, poetry, drama, and criticism. T 7:30-9:30. Mr Aaron.

B. Composition

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open both to students who have and to those who have not taken the corresponding course in the first semester.

[112a, 112b *Composition for Foreign Students*.]

220a, 220b *Practice in Various Forms of Writing*. M T W 11. Mr Van Voris (*Director*), Mrs Bramwell.

[222b *Expository Writing*. Practice in writing essays primarily on non-literary subjects. Study of methods of organization and of style.]

347a, 347b *Short Story Writing*. Though the emphasis in this course will be on fiction, opportunity will be given for other kinds of writing. By permission of the instructor. M T W 2. Mr Dabney.

[428a, 428b *Advanced Composition*. Practice in the writing of fiction. For seniors by permission of the instructor.]

C. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours*.

51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more*.

ENGLISH LANGUAGE & LITERATURE

- [53a *Seminar in Middle English Poetry.* Emphasis will be placed on the works of Chaucer, medieval romances, or medieval drama, according to the special needs of the students. Attention will be given not so much to the reading of texts as to problems of research.]
- [55 *Shakespeare.* Critical problems, textual and literary. Lectures and reports.]
- [57a *Studies in Seventeenth-Century Literature.*]
- [58a *Studies in Eighteenth-Century Literature.* Miss Hornbeak.]
- [59a, 59b *Studies in Nineteenth-Century Poetry.*]
- [510b *Studies in Nineteenth-Century Fiction.*]
- [512a *Studies in American Literature.*]

Inquiries concerning graduate work should be directed to the Chairman of the Department.

THE MAJOR

Advisers: Mr Arvin, Mr Fisher, Miss Williams, Mr Gibian, Mr Dorius, Mr Connelly, Mr Johnson, Miss Borroff, Mr Schendler, Mr Van Voris, Mr Ellis.

Based on six semester hours from Division A or General Literature 291.

Essential Courses: 30a (to be taken in the junior year), 31a or b, 36a or b.

Three hours chosen from: 35b, 38b, 39a or b, 413b.

Three hours chosen from: 310a or b, 311b, 314a, and nine additional hours from Division A.

Optional Courses: six semester hours in English or foreign literatures or in closely allied fields.

Students majoring in English will be required to pass a general examination at the end of the senior year.

ENGLISH LANGUAGE & LITERATURE

HONORS

Directors: Mr Petersson (1960), Mr Hill (1961).

Prerequisites: see the requirements for entrance to the major.

Program: students must fulfill the general requirements of the major. Exceptions to the general rule that honors students must fulfill the distribution requirements of the English major may be made with the approval of the directors. Candidates must take at least one unit each year in the junior and senior years.

In the first semester of senior year honors students will present a long paper to count for three hours, outside the twenty-one semester hours in the major.

Examinations: two examinations will be general, the third will demand a closer critical analysis of particular works and passages.

Units

First semester

Seventeenth-Century Literature. Six hours. Mr Petersson.

Aesthetics (Department of Philosophy). This unit is open to a limited number of students in English. Six hours. Miss Walsh.

Satire. Six hours. Th 7:30-9:30. Miss Hornbeak.

Modern British and American Poetry. Six hours. Mr Connelly.

Shakespeare. Three hours. Mr Hill.

Second semester

Medieval Literature. Six hours. T 3-5. Miss Williams.

Shakespeare. Six hours. Th 2-4. Mr Dorius.

The Realistic Tradition in American Literature. Six hours. T 7:30-9:30. Mr Aaron.

English Prose Fiction. Six hours. Th 7:30-9:30. Mr Hill.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	VINCENT GUILLTON, AGRÉGÉ DE L'UNIVERSITÉ HÉLÈNE CATTANÈS, DOCTEUR DE L'UNIVERSITÉ DE PARIS RENÉ GUIET, DOCTEUR DE L'UNIVERSITÉ DE PARIS MARGARET HILL PEOPLES, PH.D., <i>Chairman</i> **MARTHE STURM, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES MARINE LELAND, PH.D., LITT.D. (HON.)
VISITING PROFESSOR:	JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ
ASSOCIATE PROFESSORS:	MADELEINE GUILLTON, LIC. ÈS L., A.M. A. JEANNE SALEIL, AGRÉGÉE DE L'UNIVERSITÉ
ASSISTANT PROFESSORS:	JEANNE GUIET, A.M. *ANNE GASOOL, A.M. WILLIAM CURTIS MEAD, PH.D. GEORGE R. TREMBLEY, LIC. ÈS L.
VISITING LECTURER:	¹ ALICE ROSS BENNETT, A.M.
LECTURERS:	LUCILE FRENILLOT MARTINEAU, A.M. JOHN BUTEAU, A.M.
INSTRUCTORS:	DOLORES MANN BURDICK, PH.D. ROSE ABENDSTERN, M.A. JOSEPHINE LOUISE OTT, M.A. BEN FRANK STOLTZFUS, PH.D.

The courses in French which may be taken to fulfill the distribution requirement in Group A are 25 and 26.

All classes in the Department except 312a are conducted in French.

Freshmen who plan to major in French or who hope to spend the junior year in Paris or in Geneva are advised to take 13 or 22a and b.

It is recommended that students planning to major in French have a reading knowledge of a second language (ancient or modern) and take a general course in English literature and one in European history. Students planning to spend their junior year in Paris are urged to take Art 11 in their freshman or sophomore year.

A. Language

- 11D *Elementary Course* (first and second parts). *Six hours each semester.* M T W Th F 10, 11, or M T W 3 Th F 2, and Th 4. Members of the Department. (L)
- 12 *Elementary Course* (second part). Prerequisite, two units in French. M T W 10, 11, 12; Th F S 10, 11, 12. Members of the Department.

FRENCH LANGUAGE & LITERATURE

- 13 *Reading, Grammar, and Composition.* Prerequisite, three units in French, 12, or 11b. M T W 9, 12; Th F S 11. Members of the Department.
- 22a, 22b *Intermediate Course.* Study of modern texts from the point of view of language. Written and oral reports. Prerequisite, four units in French, 13, or 16. Prerequisite for 22b, 22a, or permission of the Chairman. M T W 10, 11; Th F S 9, 10. Members of the Department.
- 24a *Theoretical and Practical Phonetics.* Exercises in hearing, pronunciation, and phonetic dictation. Open to freshmen. Two class hours. *One hour.* Th F 4. Mr Trembley.
- 24b A repetition of 24a. M T 5.
- 31a *Advanced Course in Composition.* Students majoring in French may be urged to repeat this course if they do not spend the junior year in France. Recommended to those who intend to teach French. Prerequisite, 22a and b, or by permission of the instructor. Th F S 12.
- [34b *Advanced and Experimental Phonetics.* Prerequisite, 24a or b. *Two hours.* Miss Sturm.]
- 42a *Teachers' Course.* Problems and methods of modern language teaching. Practice in teaching. Mr Buteau.
- 42b A continuation of 42a. Prerequisite, 42a. Mr Buteau.

B. Literature

Unless otherwise stated the prerequisite for courses of Grade III is 26.

- 15 *Introduction to French Literature.* Choice of representative texts from the Middle Ages to the present day. Literary, historical, and cultural background. The written work is in English. Prerequisite, three units in French, 12, or 11b. Lec. Th 5; Sect. M T W 9, 12; Th F S 9, 10, 11. Members of the Department. (L)
- 16 *Introduction to French Literature.* This course is of the same grade and plan as 15 but the written work is in French. Recommended, instead of 15, for students planning to continue the study of French. Prerequisite, three units in French, 12, or 11b. Lec. Th 5; Sect. M T W 9, 10, 11, 12; Th F S 9, 10. Members of the Department. (L)
- 25 *Masterpieces of French Literature of the Nineteenth Century.* Novel, drama, poetry; romantic, realistic, and naturalistic schools. This course is conducted in French, but the written work is in English. Prerequisite, four units in French,

FRENCH LANGUAGE & LITERATURE

- 13, 15, 16, or, by permission, 11b or 12. M T W 9, 12; Th F S 9, 12. Members of the Department. (L)
- 26 *Masterpieces of French Literature of the Nineteenth Century.* This course is of the same grade and plan as 25 but the written work is in French. Recommended, instead of 25, for students who plan to continue the study of French. Prerequisite, four units in French, 13, 16, or by permission. M T W 9, 10, 11, 12; Th F S 9, 10, 11, 12. Members of the Department. (L)
- 310b *Life and Works of Molière.* Open to sophomores by permission of the instructor. W Th F 2. Miss Leland.
- 311 *French Literature of the Seventeenth Century.* Open to sophomores. Th F S 9. Mr Guilloton.
- 312a *French-Canadian Civilization from 1763 to the Present.* Conducted in English. No prerequisite; recommended background, a reading knowledge of French. Open to sophomores. W Th F 2. Miss Leland.
- 314b *French Literature of the Eighteenth Century.* Open to sophomores. Th F S 10. Mr. Guiet.
- 316a *French Literature to the End of the Renaissance.* Open to sophomores. Th F S 10. Mr Guiet.
- 318a *Contemporary French Drama and Poetry.* Recommended background, 311. Th F S 11. Mr Collignon.
- 318b *Contemporary French Novel.* Recommended background, 311. Th F S 11. Miss Saleil.
- 320a *The French Novel from 1850 to 1914.* Open to sophomores. M T W 12. Miss Cattànès.
- 323b *Modern France.* Social and cultural trends. Primarily for majors not taking their junior year in Paris. M T W 11.
- 40b *Directed Readings for Correlation of the Major Field.* Th 4-6.
- 41, 41a, 41b Special Studies in French language or literature. By permission of the Department for senior majors who have had twelve semester hours above Grade I in French. *Two or three hours.*
- 45a *History of Modern French Thought.* The Renaissance to the present. For seniors by permission of the instructor. Th 4-6. Miss Sturm.
- 47a *Studies in Eighteenth-Century Literature.* Alternates with 48a. For seniors by permission of the instructor. Mr Collignon.

FRENCH LANGUAGE & LITERATURE

[48a *Studies in Nineteenth-Century Literature with Emphasis on Victor Hugo.* Alternates with 47a. For seniors by permission of the instructor. Miss Peoples.]

C. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*

[52 *Old French.* Linguistics and literature. Miss Leland.]

53 *Problems of Modern Syntax.* Miss Cattànès.

56a *Development of Literary Criticism in France.* Mr Guilloton.

56b *Literary Relations between England and France in the Eighteenth Century.* Mr Guilloton.

58b *Montaigne.* *One hour or more.* Mr Guet.

510b *French Poetry from 1885 to the Present.*

Adviser of graduate study: Miss Sturm.

THE MAJOR

Advisers: Class of 1960, Mr Guet; Class of 1961, Mr Guilloton.

Based on 26; on 16 or 13 if 26 is taken junior year in addition to the major.

Essential Courses: 40b and twenty-one semester hours in French.

Optional Courses: other courses in the Department or in allied fields.

HONORS

Director: Mr Guet.

Prerequisite: 26.

Program:

Requirements: the general requirements for the major; a unit involving the writing of a paper; a review unit.

Optional: with the approval of the director any unit or course in French or in an allied field of Grade III or IV, or, for seniors, Grade V.

Examinations: of the three examinations, the two on literature will be written in English. One general examination on the whole field of French literature; one specialized examination on a limited period (sixteenth, seventeenth, eighteenth, or nineteenth century, or the modern field); one on language with translation from English to French, from French to English, and a short composition in French.

GEOLOGY & GEOGRAPHY

ASSOCIATE PROFESSORS:	ROBERT FRANK COLLINS, A.M.
	CAROLINE HEMINWAY KIERSTEAD, PH.D.
	MARSHALL SCHALK, PH.D., <i>Chairman</i>
	HELEN STOBBE, PH.D.
TEACHING FELLOWS:	ELEANOR C. BANKA, B.S.
	NATALIA PRAJMOVSKY, A.B.
	BETSY ANN CANTWELL, A.B.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Geology 11 and Physical Science 194.

Students planning to major or to do honors work in geology are required to take six semester hours in at least one of the following: chemistry, mathematics, physics, or zoology.

- 11 *General Geology.* Forces of nature now modifying the materials and structure of the earth; history of the earth. Field trips. Two lectures and two and one-half hours of laboratory. Lec. Th F 10. Lab. M 9, M, T, Th, F 2. Mr Collins, Mr Shalk, Miss Banka, Miss Prajmovsky, Miss Cantwell.
- 21a, [21b] *Introductory Meteorology.* The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Pre-requisite for 21b, 21a. Two lectures and one demonstration. Mr Schalk.
- 213b *Geography of North America.* Regional characteristics of North America exclusive of Mexico. M T W 11. Mrs Kierstead.
- 31a *Geography of Asia.* Influence of relief, climate, and natural resources on the life, movements, and history of its peoples. M T W 10. Miss Stobbe.
- 31b *Europe and North Africa.* Geographic backgrounds of current problems. M T W 10. Miss Stobbe.
- 32a *South America.* Geography of the continent; climatic and physiographic backgrounds of cultural, political, and economic development. M T W 12. Miss Stobbe.

GEOLOGY & GEOGRAPHY

- 33 *Land Surfaces of the United States.* Physiographic foundations of American regional, economic, and social culture. Systematic description of physical divisions of the United States. Geomorphic processes and principles. Th F 11 and one hour to be arranged. Mr Collins.
- [34a], 34b *Economic Geology.* Lectures and laboratory study of geological products of commercial value. Prerequisite, 11, or 324a, or Chemistry 11, or Physical Science 194. Lec. M T 12; lab. hours to be arranged. Miss Stobbe.
- 36a, 36b *Field Geology.* Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Prerequisite for 36a, 11; for 36b, 36a. Given in alternate years. Th F 12, Th 2-6. Mrs Kierstead.
- [37a *Stratigraphy.* Stratigraphic methods and techniques; geological systems and subdivisions. Prerequisite, 11. Mrs Kierstead.]
- [38a *Optical Mineralogy.* Optical properties and identification of minerals in fragments and thin sections. Prerequisite, 325b. Miss Stobbe.]
- [39b *Petrography.* Identification and classification of rocks with the polarizing microscope. Prerequisite, 38a. Miss Stobbe.]
- 314b *Geology of Petroleum and Natural Gas.* Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite, 11, Physical Science 194, or permission of the instructor. Mr Schalk.
- [322a *Structural Geology.* The study and interpretation of rock structures; their origin, topographic effect, and economic importance. Open to students who have passed Geology 11. To be given 1960-61. Mrs Kierstead.]
- 323a, 323b *Paleontology.* Marine invertebrate fossils and their significance in interpreting the history, climate, and geography of the past. Open to students who have passed 11, Zoology 11, or Biological Science 195. Two-day field trip in second semester. Lec. T W 10; lab. M 2-5. Mrs Kierstead.
- 324a *Mineralogy.* General principles; study of the more important rock-forming, economic, and gem minerals. For students who have passed or are taking 11, Chemistry 11, Physics 11, or Physical Science 193 or 194. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe.
- 325b *Lithology.* Interrelation of the main rock types; their origin, structure, mineral composition, occurrence, and economic importance. Field methods of identification. Prerequisite, 324a. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe.

GEOLOGY & GEOGRAPHY

- 328a *Principles of Cartographic Drafting, Editing, Reproduction.* Practice in map reading, compilation and simple map drafting. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.
- 329b *Geologic and Geographic Illustration.* Charts, graphs, block diagrams, sections. Drawing for reproduction. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.
- 40b Senior Review Essay. For seniors majoring in geology or geography. M 2-5. Members of the Department.
- 41, 41a, 41b Special Studies in geology or geography. By permission of the Department for senior majors who have had twelve semester hours above Grade I in the Department. Members of the Department. *Two or three hours.*
- [46a, 46b *Micropaleontology.* A study of micropaleontology with particular emphasis on Foraminifera, their classification and importance in petroleum geology. Lec. T W 12; lab. T 2-5. Mrs Kierstead.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Individual problems in geology or geography. *Two hours or more.*
- 52, 52a, 52b *Paleontology or Stratigraphy.* *Two hours or more.* Mrs Kierstead.
- 53, 53a, 53b *Physiography.* *Two hours or more.* Mr Collins.
- 54, 54a, 54b *Structural Geology.* *Two hours or more.* Mrs Kierstead.
- 55, 55a, 55b *Crystallography, Mineralogy, Petrology, or Gemology.* *Two hours or more.* Miss Stobbe.
- 57, 57a, 57b *Petroleum Geology.* *Two hours or more.* Mr Schalk.
- Adviser of graduate study: Mr Schalk.

THE MAJORS

GEOLOGY

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11, or, by permission of the Department, on Physical Science 194.

Essential Courses: 36a and b, 322a, 323a, 324a, 325b, 40b.

Optional Courses: other courses in geology or in other sciences.

GEOLOGY & GEOGRAPHY

Geography

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11, 213b, 21a.

Essential Courses: 11 if not already taken; 40b and twelve semester hours above Grade II in the Department.

Optional Courses: other courses in geology; courses in other sciences, history, and economics.

HONORS IN GEOLOGY

Director: Mr Schalk.

Prerequisites: 11, and 323a and 323b *or* 324a and 325b; and one year of college chemistry, physics, or zoology.

Program:

Requirements: 323a and 323b *or* 324a and 325b (whichever has not been taken previously); 33, 36a and 36b; and six additional hours of Grade III or above in geology *or* six hours in an advanced course of a science other than geology.

Examinations: two will be in the general field of the major; a third may be in a field of concentration.

GERMANIC LANGUAGES & LITERATURES

PROFESSORS:

PAUL GERALD GRAHAM, PH.D.

MARIE SCHNIEDERS, PH.D., *Chairman*

ASSISTANT PROFESSOR:

MARION WILMA H. SONNENFELD, PH.D.

INSTRUCTORS:

REINHARD ADOLF LETTAU

RONALD HAUSER, PH.D.

The courses in German which may be taken to fulfill the distribution requirement in Group A are 25a and b, 26, 27a and b.

Students who possess a thorough knowledge of German considerably in excess of what their preparatory school work indicates, may be assigned to more advanced classes. They should consult the chairman of the Department.

Students planning to major in German should carry work in German in the first two years. A course in European history and a course in philosophy are also recommended.

Those who need a knowledge of German for use in the sciences will be advised about appropriate reading in the various German courses.

GERMANIC LANGUAGES & LITERATURES

A. German Language

- 11 *Elementary Course.* Five class hours. *Three hours each semester.* M T 9, Th F 9, and three hours to be arranged. Miss Sonnenfeld (*Director*), and members of the Department.
- 11D *Elementary Course* (covering the work of two years). Seven class hours. *Six hours each semester.* M T W Th F 10 and two hours to be arranged. Miss Schnieders. (L)
- 12 *Intermediate Course.* Prerequisite, two units in German or 11. M T W 11, 3, Th F S 11, two additional hours to be arranged for conversation in place of some preparation. Members of the Department. (L)
- 21 *Composition and Conversation.* Prerequisite, three units in German, 11D, 12, or the equivalent. Mr Hauser.
- [31a *Advanced German Composition.* Intensive practice in free composition and translation. Prerequisite, 21 or permission of the instructor.]
- 31b Repetition of 31a.

B. German Literature

The prerequisite for courses of Grade III is a Grade II course or the equivalent.

- [25a] 25b *Modern Prose.* The *Novelle* of the nineteenth and twentieth centuries. Prerequisite, three units in German, 11D, 12 or the equivalent. Th F S 11. Miss Sonnenfeld. (L)
- 26 *An Introduction to the Classical Literature of the Eighteenth Century.* Selections from the works of Lessing, Goethe, and Schiller. Prerequisite, three units in German, 11D, 12, or the equivalent. M T W 10. Mr Graham. (L)
- 27a *German Literature in Translation.* The German novel from the eighteenth century to the present. Th F S 10. Members of the Department.
- 27b *German Literature in Translation.* The German drama from the eighteenth century to the present. Members of the Department.
- [34a] 34b *German Literature of the Nineteenth Century.* Beginning with the romantic movement. Mr Graham.
- [35a] *An Historical Survey of German Literature.* The earliest times to the middle of the eighteenth century. Miss Schnieders.]

GERMANIC LANGUAGES & LITERATURES

38b *Masters of Modern German Literature.* Selected works of representative writers since 1890. Mr Lettau.

311a *Goethe: His Life and Works.*

311b *Goethe's Faust, Parts I and II.*

40b Directed reading required of seniors majoring in the Department.

41, 41a, 41b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in German. *Two or three hours.*

C. Germanic Philology

[42a *Historical Survey of the German Language.* Miss Schnieders.]

D. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Special Studies in the fields of literature and linguistics arranged in consultation with the Department. *One hour or more.*

Adviser of graduate study: Miss Schnieders.

THE MAJOR

Adviser: Miss Sonnenfeld.

Based on 11D or 12.

Essential Courses: 21, 35a, 40b, and nine semester hours of other German courses above Grade II.

Optional Courses: courses in German except 27a and b, in literature, history, or philosophy.

HONORS

Director: Mr Graham.

Prerequisites: 21, 26, or the equivalent.

Program: a minimum of forty-eight semester hours.

GERMANIC LANGUAGES & LITERATURES

Requirements: a minimum of twenty-four semester hours in the Department; twelve hours in related fields; three or six in first semester of senior year on the preparation of a paper; three in second semester on directed reading.

Examinations: an examination on the general field; one on a specialized field; and an analytical examination which may include such topics as problems of analysis, criticism, and style, translation from German into English and from English into German a composition in German.

Units

The Department will offer units in the fields of linguistics, literature, and language for honors students in German or for honors students in other departments who have had a Grade II course in German. In addition, units conducted in English will be offered for honors students in other departments who have had no German.

GOVERNMENT

PROFESSOR:	GWENDOLEN MARGARET CARTER, PH.D.
ASSOCIATE PROFESSORS:	§ALAN BURR OVERSTREET, PH.D. CECELIA MARIE KENYON, PH.D., <i>Chairman</i> LEO WEINSTEIN, PH.D.
ASSISTANT PROFESSORS:	GUENTER LEWY, PH.D. STANLEY ROTHMAN, PH.D. KENNETH GEORGE OLSON, M.A. CHARLES LANGNER ROBERTSON, PH.D.
INSTRUCTORS:	PETER NILES ROWE, M.A. ROBERT BRUCE CARROLL, M.P.A.

The distribution requirement in Group E may be fulfilled by any year course or by any two semester courses in the same section, or by Social Science 192.

For students planning to major or to do honors work in the Department, History 11, Economics 21, and Sociology 11a and b are suggested. See also the honors program.

Grade III courses are open to sophomores with the permission of the instructor.

Seminars, Grade IV courses, require the permission of the instructor and ordinarily presume as a prerequisite a Grade II or III course in the same area.

- 11 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only; not open to students who have taken Social Science 192. Two lectures and one discussion. Lec. M T 12. Dis. W 9, 12, 2; Th 11, 12, 2; F 11. Mr Weinstein, Miss Carter (*Directors*) and members of the Department.

GOVERNMENT

- 11a The first semester of 11 for sophomores who have passed Social Science 192. Hours and instructors as in 11.

A. American Government

- 21 *American Government.* The processes and functions of American government in the light of the principal concepts of American democracy. M T W 10. Mr Weinstein.
- 22b *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning, field study of political attitudes. M T W 2. Mr Carroll.
- 31a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis upon changing ideas concerning federalism, property rights, and civil liberties. M T W 11. Mr Carroll.
- 31b *American Constitutional Law.* Powers of the national government and fundamental rights of citizens as interpreted by decisions of the Supreme Court. M T W 11. Mr Weinstein.
- 32a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 3. Mr Olson.
- 33a *Administration and Policy Development.* Theory and practice of the administrative state with special reference to problems of "bureaucracy," responsibility, democratic participation in and control of policy formation. Use is made of the case method. M T W 2. Mr Carroll.
- [33b *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and atomic energy development.]
- 42a, 42b *Seminar in American Government.* Mr Lewy, Mr Carroll.
- 43b *Seminar in Public Opinion and Pressure Groups.* Mr Olson.

B. Comparative Government

- 36a *European Government.* The development and operation of the political systems of England, France, and Germany. The emphasis will be on comparative analysis. Recommended preparation, 11 or History 11. M T W 9. Mr Rothman.

GOVERNMENT

- 36b *European Government.* The origins, development, and structure of Soviet totalitarianism. Some comparisons will be made with other totalitarian systems. Recommended preparation, 11 or History 11. M T W 9. Mr Rothman.
- 38b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, South Africa, India, Pakistan, Ceylon, and Ghana. M T W 10. Miss Carter.
- 47a *Seminar in Comparative Government.* Mr Rothman.
- 48b *Seminar on Comparative African Government.* An analysis of recent constitutional and political developments in selected territories of Africa south of the Sahara. Prerequisite, a course on Africa south of the Sahara. Miss Carter.

C. International Relations

- 211a *International Relations.* The context, practices, and problems of international politics. Th F S 10. Mr Robertson.
- 311b *International Relations.* The role and function of international organization in international relations. Achievements and limitations of regional and universal organizations such as NATO and the UN. Th F S 10. Mr Robertson.
- 312a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. M T W 11. Mr Rowe.
- [322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]
- [322b *Foreign Policy of the United States since 1898.*]
- 324a *Foreign Policy of the United States since 1898.* Emergence of the United States as a world power, responses to new post-war problems and the relation between governmental organization and policy development. M T W 3. Mr Rowe.
- 324b *Foreign Policy of the United States.* An analytical treatment: the internal organization and political setting of United States foreign policy formulation and control. The nature of problems facing American decision-makers today. M T W 3. Mr Rowe.
- 411a, 411b *Seminar in International Politics.* Mr Robertson, Mr Rowe.

GOVERNMENT

D. Political Theory

- 326 *History of Political Thought from Plato to the Present.* Greek political philosophy, the Stoics, medieval theory, rise of the nation-state, and modern liberal, democratic, and totalitarian thought. Designed to provide a foundation for the understanding of current political problems. Th F S 11. Miss Kenyon.
- 327b *American Political Thought.* The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10. Miss Kenyon.
- [423a *Seminar in American Political Thought.* Miss Kenyon.]
- 424b *Seminar in Contemporary Political Thought.* Mr Weinstein.
- 40b Directed reading required of seniors majoring in the Department. Director: Mr Lewy. Members of the Department.
- 41, 41a, 41b Special Studies in advanced work arranged for individuals or small groups. By permission of the Department for senior majors who have had twelve semester hours above Grade I in government. *Two or three hours.*

HISTORY AND SOCIAL SCIENCE 495b *Interdepartmental Seminar in Economics, Government, History, and Sociology.* Church and State in the Modern World. A study of the relations between the Christian churches and political authority since the French Revolution. Examples will be chosen from the recent history of selected countries in Europe and Latin America as well as of the United States. Mr Lewy (*Director*), Mr Ruiz, Mr Gessert.

[50, 50a, 50b Research and Thesis.]

51, 51a, 51b Advanced Studies. *Two or three hours.*

[55a, 55b Seminar.]

THE MAJOR

Advisers: Miss Carter, Miss Kenyon, Mr Weinstein, Mr Rothman, Mr Lewy, Mr Robertson.

Based on 11 or Social Science 192 and Government 11a, or in exceptional circumstances on an advanced course approved by the chairman.

Essential Courses: 326, 40b, and twelve semester hours in government.

Optional Courses: nine semester hours selected from government and approved courses in history, economics, sociology, philosophy, or religion.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Years Abroad.

GOVERNMENT

HONORS

Director: Mr Lewy.

Prerequisites: 11 and an introductory course in history, economics, or sociology;
or Social Science 192 and Government 11a and one introductory course in history;
or in exceptional circumstances an advanced course approved by the director.

Minimum requirement: (1) one unit or seminar in junior and in senior year; (2) the unit in political theory or 326; (3) a long paper counting for six hours in the first semester of senior year; (4) directed reading counting for three hours in second semester of senior year.

Examinations: comprehensive examinations consisting of a general examination in political science, one in political theory, and one in a special field other than theory.

Units

Political Theory. First semester. Miss Carter, Mr Weinstein.

Comparative Government. Second semester. Mr Rothman.

International Relations. Second semester. Mr Robertson.

American Politics. First semester: Mr Lewy.

HISTORY

PROFESSORS:

THOMAS CORWIN MENDENHALL, B.LITT., PH.D.

SIDNEY RAYMOND PACKARD, PH.D., JUR.D. (HON.)

LEONA CHRISTINE GABEL, PH.D.

MAX SALVADORI, DR.SC. (POL.), LITT.D.

JEAN STRACHAN WILSON, PH.D.

ELISABETH KOFFKA, PH.D.

VISITING PROFESSOR:

²LELAND HAMILTON JENKS, PH.D.

ASSOCIATE PROFESSORS:

KLEMENS VON KLEMPERER, PH.D., *Chairman*

DONALD HENRY SHEEHAN, PH.D.

CHARLES WHITMAN MACSHERRY, PH.D.

ARTHUR MANN, PH.D.

LOUIS COHN-HAFT, PH.D.

¹ERIC EDWIN LAMPARD, PH.D.

ASSISTANT PROFESSORS:

NELLY SCHARGO HOYT, PH.D.

NINA G. GARSOIAN, PH.D.

RAMÓN EDUARDO RUIZ, PH.D.

ALISON GILBERT OLSON, D.PHIL.

SIDNEY MONAS, PH.D.

INSTRUCTOR:

GERARD ERNEST CASPARY, A.M.

ASSISTANT:

A. JEAN ELDER, B.A.

HISTORY

The prerequisite for all courses above Grade I in the Department is 11, 12, or 13.

The distribution requirement in Group D may be met by any one of these courses. Qualified students who may wish to fulfill this requirement by taking courses of Grade II (including History and Social Science 293) should consult the chairman of the Department.

- 11 *General European History.* A survey of the history of Europe from the decline of the Roman Empire to the present. One lecture and two discussions. Lec. M 2. Dis. T W 9, 11, 12, 2, 3; Th F 9, 10, 11, 12. Members of the Department, Mrs Koffka (*Director*).
- 12 *The Ancient World.* A survey of Mediterranean civilizations to the fall of the Roman Empire. Two lectures and one discussion. Lec. M T 10; dis. W 9, 10, 3. Mr Cohn-Haft (*Director*).
- 13 *History of the Americas.* A study of the Western Hemisphere from the age of discovery to the present: the European heritage, Indian cultures, the growth of colonial societies, imperial rivalries, the emergence of independence movements, and the evolution of the United States, Canada, and the Latin-American nations in their world setting in the nineteenth and twentieth centuries. Th 9, 12 and F S 9. Mr Lampard (*Director*), Mr Ruiz and other members of the Department.
- [23b *The Ancient Near East.* Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. Alternates with the Ancient Greece unit. M T W 2. Mr Cohn-Haft.]
- 24a *Early English History to 1603.* M T W 11. Mr Caspary, with lectures by Mr Packard and Miss Wilson.
- 24b *English History since 1603.* M T W 11. Miss Wilson.
- 25a *Medieval France.* With major emphasis on the twelfth and thirteenth centuries. After the first few weeks this course will be conducted mainly by the students. Each student will have some opportunity both to lecture and to lead a discussion. Open by permission of the instructor to students who have had 11 or 24a. Th F S 10. Mr Packard.
- [27a *Europe and the Far East to 1800.* Travelers, merchants, and missionaries to the Far East. European maritime and landward expansion into Asia. Intellectual interchange between China and Europe in the seventeenth and eighteenth centuries. Th F S 11. Mr MacSherry.]

HISTORY

- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Lampard, first semester; Mr McCartney, second semester.
- 217a *History of Russia from the Kievan Period to 1825.* Th F S 10. Mr Monas.
- 217b *History of Russia from 1825 to the Present.* Prerequisite 217a. Th F S 10. Mr Monas.
- 30a *Introduction to Historical Thought.* A study of the nature of historical problems and of the development of historical thought, based on selected writings of great historians. This course is designed to provide a basis for the work of the major. For juniors majoring in history and for seniors returning from the junior year abroad. One lecture and one two-hour discussion. Lec. M 3; sections T 3-5; Th 3-5. Mr Mann (*Director*), Mr Caspary, and members of the Department.
- 33a *Classical Greece.* A study of Greek civilization at its height in the fifth and fourth centuries B.C. Open to sophomores by permission of the instructor. M T W 12. Mr Cohn-Haft.
- [33b *The Roman Empire.* Chiefly a social and political study. Open to sophomores by permission of the instructor. Alternates with 314b. M T W 12. Miss Garsoian.]
- [34b *Economic and Social History of Europe in the Middle Ages.* Recommended background, 11, 24a, or 35b. M T W 10. Mr Packard.]
- 35b *Cultural History of Europe in the Middle Ages.* Recommended background, 11, 24a, or 25a. Th F S 10. Mr Packard.
- 36 *Age of the Renaissance and Reformation.* A study of the transition from medieval to modern times. Th F S 9. Miss Gabel.
- 37b *Problems of German History from 1648 to the Present.* A study of the growth and interaction of German intellectual, social, political, and economic forces within the framework of modern Europe. Alternates with 411a. Th F S 10. Mrs Koffka.
- 38a *Intellectual History of Europe in the Eighteenth Century.* Main trends of thought in their relation to the political, social, and economic background. M T W 11. Mrs Koffka.

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- 38b *Intellectual History of Europe in the Nineteenth Century.* Main trends of thought in their relation to the political, social, and economic background. M T W 11. Mrs Koffka.
- 39 *Modern European History.* Political, economic, and social developments in Europe during the nineteenth and twentieth centuries. M T W 12. Mr Salvadori.
- [310a *Modern Britain.* Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. M T W 10. Miss Wilson.]
- 311a *England under the Tudors and Stuarts.* Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 310a. M T W 10. Miss Wilson.
- 312a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg Monarchy and its successor states. Problems of a multi-national area in an age of nationalism. The interaction between this area and the great powers. M T 4-5:30. Mr von Klemperer.
- 313b *The Age of Absolutism.* Political, social, and economic problems of Continental Europe from 1648-1789. M T W 9. Mrs Hoyt.
- 314b *The Byzantine Empire, 330-1453.* The main problems and characteristics of the Byzantine civilization and its relations, political, religious, and cultural with the west. To alternate with 33b. M T W 12. Miss Garsoian.
- 315a *The Modern Middle East.* An introduction to the political, social, and economic developments in the modern Middle East with emphasis on the survival of traditional Muslim concepts and institutions. M T W 9. Miss Garsoian.
- [316b *Modern Imperialism.* Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. Alternates with 413b. M T W 2. Mr Salvadori.]
- 318a *Introduction to Far Eastern Civilizations from the Beginning to 1500.* A survey of the political, economic, social, and cultural aspects of the civilization that developed in China; its extension and modification in Japan and other areas of Eastern Asia. M T W 11. Mr MacSherry.

HISTORY

- 318b *Introduction to Far Eastern Civilizations, 1500 to the Present.* A survey of Far Eastern civilizations during the period of limited contact with the West (sixteenth to eighteenth centuries) and the period of extensive Western influence (nineteenth and twentieth centuries). M T W 11. Mr MacSherry.
- 319a *American Political History from the Eighteenth Century to 1865.* W Th F 2. Mr Sheehan.
- 319b *American Political History from 1865 to 1945.* W Th F 2. Mr Sheehan.
- 320b *History of the United States in the Twentieth Century.* A study of the development of the American economy in its relations to recent social and cultural changes. Th F S 10. Mr Jenks.
- 321a *American Intellectual History, 1607-1865.* Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th F S 11. Mr Mann.
- 321b *American Intellectual History, 1865-1950.* The historical background of contemporary American thought, emphasizing the influence of industrialism, science, and religion. Th F S 11. Mr Mann.
- [322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]
- [322b *Foreign Policy of the United States since 1898.* To be given as Government 324a.]
- [323a *American Economic History since 1865.* Economic development of the United States and its influence upon political history. M T W 10.]
- 325a *Latin-American History.* The development of Mexico, Argentina, and Brazil in the nineteenth and twentieth centuries. An analysis of their political, social, and economic problems. Open to sophomores by permission of the instructor. Th F S 11. Mr Ruiz.
- 327b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T W 11. Mrs Olson.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in history above Grade I. *Two or three hours.*

HISTORY

Undergraduate Seminars

These courses are limited to twelve students and are open with the permission of the instructors to seniors, and to juniors who have completed a second course in history. They will ordinarily meet each week for two hours, counting as *three*. In special cases honors students may be permitted to take a seminar for *six* hours credit.

- 43b *The Hellenistic Age*. Studies in the formative ideas and institutions of the period from Alexander the Great to the founding of the Roman Empire. Mr Cohn-Haft.
- 44b *Medieval France and England*. Mr Caspary.
- 46b *The Renaissance in Italy and its Reflection in Art*. Open to majors in history and art. Alternates with the Renaissance unit. T 3. Miss Gabel, Mrs Kennedy.
- 47a *The Role of Sea Power in European Expansion, 1500-1815*. M 3-5. Mr Mendenhall.
- 48a *Revolution and Dictatorship*. The French Revolution and Napoleon. T 4. Miss Gabel.
- 49b *Modern Britain*. T 7:30. Miss Wilson.
- 410a *Modern Europe*. The analysis of a few major problems in Europe in the nineteenth and twentieth centuries, with particular attention to the growth and decline of free institutions. Mr Salvadori.
- [411a *Romanticism and Liberalism*. Main currents of thought in the first half of the nineteenth century, with special attention to their influence on the political developments during this period. Alternates with 37b. Th 7:30. Mrs Koffka.]
- 411b *Modern Germany*. Th 4. Mr von Klemperer.
- [412b *The Russian Revolutionary Tradition in the Nineteenth and Twentieth Centuries*. A study of the Russian intelligentsia, its ideas, and its changing functions in society. Alternates with 411b. Th 4. Mr von Klemperer.]
- 413b *Capitalism in Europe from the Industrial Revolution to the Crisis of 1929*. Alternate with 316b. Mr Salvadori.
- 414b *Race, Nationality, and Religion in American History*. Mr Mann.
- 415a *Cities in American History*. The growth of urban-industrial communities in the United States, 1865-1917. Mr Lampard.

HISTORY

[415b *United States Foreign Policy since 1898*. The seminar will concentrate on the Far East and its problems. Th 4. Mr Sheehan.]

420b *Inter-American Affairs*. Latin America and the United States since 1900. Selected topics. Mr Ruiz.

[425b *Problems in the Intellectual History of China and Japan*. M 4. Mr MacSherry.]

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology*. Church and State in the Modern World. A study of the relations between the Christian churches and political authority since the French Revolution. Examples will be chosen from the recent history of selected countries in Europe and Latin America as well as of the United States. Mr Lewy (*Director*), Mr Ruiz, Mr Gessert.

Graduate Seminars

50, 50a, 50b Research and Thesis. *Three or six hours*.

51, 51a, 51b Special problems in advanced work in history, arranged individually with graduate students. *One hour or more*.

55b *Modern European History*. A study of main developments in the social and political life of European nations, with special regard to the twentieth century. Mr Salvadori.

[56b *Early American History*.]

57a *American History*. Mr Lampard.

58a *Modern Imperialism*. Selected Topics.

Adviser of graduate study: Mr Cohn-Haft.

THE MAJOR

Advisers: Miss Wilson, Mrs Koffka, Miss Gabel, Mr Sheehan, Mr MacSherry, Mr Mann, Mr Cohn-Haft, Mrs Hoyt, Mr Lampard, Miss Garsoian, Mrs Olson.

Based on 11, 12, 13, or an equivalent course. Students who have been exempted from the distribution requirement in Group D are expected to take six semester hours in the Department in their first two years if they wish to major in history.

Essential Courses: 30a and eighteen hours in history.

HISTORY

Optional Courses: nine semester hours in history or in related departments.

The Senior examination will assume some preparation, at least three semester hours, in each of the following fields: Europe before 1700; Europe after 1700; American History.

Major programs may be arranged to correlate work in history and related subjects in such broad fields as ancient civilization, medieval or Renaissance studies, modern Europe, or area studies (*e.g.*, the Americas).

Attention is called to the Interdepartmental Major in American Studies.

HONORS

Director: Miss Wilson.

Prerequisites: two courses in history or one course in history and one in a field appropriately related to the honors program.

Program: the fixed requirements for all candidates will consist of a minimum of twenty-four semester hours in history, plus six semester hours in history or in appropriately related courses in other departments. The required twenty-four semester hours in history will include: (1) at least six semester hours in units or undergraduate seminars offered by the Department; (2) the unit, *History and Historians*, and (3), in the senior year, a long paper.

Examinations: (1) a general examination assuming some preparation* in each of the fields—Europe before 1700, Europe since 1700, American history; (2) an examination on historical literature and method; (3) a special examination in one of the following fields: ancient, medieval, early modern to 1789, Europe since 1789, American, Imperialism, and the Far East. Students will construct their programs with this distribution and emphasis in mind.

*i.e., at least a semester course devoted largely to the field concerned.

Units

History and Historians (introductory unit). A study of great historians and of the development of historical thought. M 7:30. First semester. Members of the Department, Mrs Hoyt (*Director*).

Ancient Greece. First semester. Alternates with 23b. Mr Cohn-Haft.

Medieval Europe. Second semester. Mr Packard.

[*The Age of the Renaissance*. Second semester. Alternates with 46b. Miss Gabel.]

HISTORY

Western Europe in the Seventeenth Century, or England in the Sixteenth and Seventeenth Centuries. First semester. Miss Wilson.

[*Eighteenth-Century Europe.* Political, social, and economic problems. Second semester. Mrs Hoyt.]

Modern Europe. Second semester. Mr von Klemperer.

American History Topics in the Westward Movement. Second semester.

Recent Interpretations of American History. First semester. Mr Sheehan.

ITALIAN LANGUAGE & LITERATURE

PROFESSORS:	MICHELE FRANCESCO CANTARELLA, A.M., <i>Chairman</i> RUTH ELIZABETH YOUNG, A.M.
INSTRUCTORS:	ANNA M. MARTELLONI, DOTTORE IN LETTERE FRANCA LOLLI, DOTTORE IN LETTERE

The course in Italian which may be taken to fulfill the distribution requirement in Group A is 26.

It is recommended that students planning to major in Italian take History 11 and Philosophy 11 or 24. Those planning to spend the junior year in Italy are urged to take Art 11 in the freshman or sophomore year.

11D or 12 is the prerequisite for 26 and all grade III courses.

- 11 *Elementary Course.* Five class hours. M T W 9, 12; Th F S 10, two hours to be arranged. Miss Young. Miss Lolli.
- 11D *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 12; two additional hours to be arranged for conversation in place of some preparation. Miss Young. (L)
- 12 *Intermediate Course.* Reading from modern Italian literature, with grammar and composition, followed by a survey of Italian civilization. Prerequisite, two units in Italian or 11. M T W 11. Mr Cantarella, Miss Lolli. (L)
- [26 *Survey of Italian Literature.* Reading of outstanding works, with cultural and social background. Miss Young. (L)]
- 31a *Advanced Composition.* W 7:30-9:30; F 11. Miss Lolli.

ITALIAN LANGUAGE & LITERATURE

31b *Advanced Translation into English.* Miss Young.

36 *Dante: Vita Nuova, Divina Commedia.* M T W 10. Mr Cantarella.

[37 *Major Literary Figures from Petrarch to Tasso.* Miss Martelloni.]

[38 *Literature of the Eighteenth and Nineteenth Centuries.* Miss Lolli.]

39 *Contemporary Literature.* T 7:30-9:30; Th 12. Mr Cantarella.

40b *Directed Reading and Review.* Mr Cantarella.

41, 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in Italian. *Two or three hours.*

50, 50a, 50b *Research and Thesis.* *Three or six hours.*

51, 51a, 51b *Advanced Studies.* *One hour or more.*

Adviser of graduate study: Miss Young.

THE MAJOR

Adviser: Mr Cantarella.

Based on 11D or 12.

Essential Courses: 26, except for those who spend the junior year in Italy, 36, 40b, and one other course of Grade III.

Optional Courses: closely related courses in allied fields such as history, literature, art, and music.

HONORS

Director: Miss Young.

Prerequisite: 11D or 12.

Program: to be arranged with the director; three hours on an independent piece of work.

Examinations: one on the general field of literature; one on the field of specialization; one on linguistic preparation.

MATHEMATICS

PROFESSORS:

*NEAL HENRY MCCOY, PH.D.,

RICHARD EDWARD JOHNSON, PH.D., *Chairman*

ASSISTANT PROFESSORS:

BERT MENDELSON, PH.D.

AUBYN FREED, PH.D.

LECTURER:

ALICE B. DICKINSON, PH.D.

MATHEMATICS

Students planning to take courses in mathematics are expected to offer at least three units of mathematics for entrance; those planning to major in mathematics are advised to take in the first two years Mathematics 12, 21a, 21b or 13, 22a, 22b. A course in astronomy or physics is also recommended. For additional preparation for honors work, see the honors program.

Beginning with the Class of 1961, students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group F by taking Mathematics 12 or 13.

- 12 *Mathematical Analysis*. Trigonometry; analytic geometry; elements of calculus. Prerequisite, three units of mathematics not including trigonometry. M T W 9, Th F S 9. Mrs Dickinson.
- 13 *Analytic Geometry and Calculus*. Prerequisite, at least three units of mathematics including trigonometry. M T W 3, Th F S 10. Members of the Department.
- 21a, 21b *Differential and Integral Calculus*. Prerequisite, for 21a, 12; for 21b, 21a. M T W 10. Mr Freed.
- 22a, 22b *Differential and Integral Calculus*. Prerequisite, for 22a, 13; for 22b, 22a. M T W 10, 11. Mr Johnson, Mrs Dickinson.
- 31a *Intermediate Calculus*. Topics from calculus including multiple integration, infinite series, and partial differentiation. Prerequisite, 21b or 22b. M T W 2. Mrs Dickinson.
- 31b *Differential Equations*. Solution and application of ordinary differential equations. Prerequisite, 31a. M T W 2. Mrs Dickinson.
- [32b *Differential Geometry*. Differential geometry of curves and surfaces in three dimensions. Prerequisite, 31a. M T W 11. Mr Mendelson.]
- 33a, 33b *Higher Algebra*. Topics from the theory of equations, and an introduction to modern abstract algebra. 33a for students who have passed or are taking 21a or 22a; prerequisite for 33b, 33a. M T 3, M 4. Mr Johnson.
- 34a *Projective Geometry*. Prerequisite, 12 or 13. M T W 10. Mr Mendelson.
- 35b *Theory of Numbers*. Properties of integers including divisibility, theory of congruences, primitive roots, theorems of Fermat and Wilson. Prerequisite, three semester hours of Grade III in mathematics or permission of the instructor. Th F S 9. Mr McCoy.
- 37b *Topology*. Set theory, topology of the real line, metric spaces, abstract topological spaces. M T W 10. Mr Mendelson.
- [38a *Solid Analytic Geometry*. For students who have passed 21a or 22a.]

MATHEMATICS

- [39a *Theory of Probability*. An introduction to the mathematical theory of probability including combinatory analysis, simple and conditional probability, binomial and normal distributions. For students who have passed or are taking 21a or 22a.]
- [39b *Mathematical Statistics*. An introduction to the mathematical theory of statistics, including a discussion of random variables, mathematical expectation, convergence in probability, and statistical inference. Prerequisite, 39a.]
- 40b Seminar. T 4-6. Mr McCoy.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in mathematics. *Two or three hours.*
- 43 *Advanced Calculus*. A study of functions of two or more variables. Prerequisite, 31a. M T W 11. Mr Freed.
- 48 Honors paper, review, and coordination. For seniors.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 52a, 52b *Special Studies in Topology and Analysis*. *One hour or more.*
- 53a, 53b *Special Studies in Modern Geometry*. *One hour or more.*
- 54a, 54b *Special Studies in Algebra*. Theory of numbers, theory of groups, matrices and determinants, and modern algebraic theories. *One hour or more.*
- Adviser of graduate study: Mr Johnson.

THE MAJOR

Advisers: Mr McCoy, Mr Johnson, Mr Mendelson.

Based on 12 or 13.

Essential Courses: 21a, 21b or 22a, 22b; 31a, 40b, and other courses in mathematics, making a total of twenty-one semester hours.

Optional Courses: other courses in mathematics.

Astronomy, courses above Grade I except 21a or b and 24b.

Physics, courses above Grade I.

Economics 28a, 38b; Chemistry 43; Philosophy 21a or b, 31b.

MATHEMATICS

HONORS

Director: Mr McCoy.

Prerequisites: 12 and 21a, 21b or 13 and 22a, 22b.

Program:

Essential Course: 48.

Optional Courses: other courses in mathematics or courses in related fields chosen in consultation with the director.

Examinations: one will cover the common background of all majors, two will test the field of specialization.

MUSIC

PROFESSORS:

JOHN WOODS DUKE

OLON ROBINSON

DORIS SILBERT, A.M.

ALVIN DERAUD ETTLER, MUS.B.

GERTRUDE PARKER SMITH, A.M., *Chairman*

*LOUISE ROOD, A.M.

ASSOCIATE PROFESSORS:

RAYMOND PRENTICE PUTMAN

BIANCA DEL VECCHIO, DIPLOMA DI MAGISTERO

MARION DERONDE, A.B.

IDA DECK HAIGH

PHILIP KEPPLER, M.F.A.

DIRECTOR OF CHORAL MUSIC:

IVA DEE HIATT, M.A.

ASSISTANT PROFESSORS:

VERNON DETWEILER GOTWALS, M.F.A.

GABRIEL BANAT, M.MUS.

INSTRUCTORS:

DOROTHY STAHL, B.MUS.

ADRIENNE AUERSWALD, A.B.

TEACHING FELLOWS:

DIANA DUNCAN HULL, A.B.

ELEANOR JACKSON, A.B.

ASSISTANT IN CHORAL MUSIC:

CHARLES K. FASSETT, B.A.

CURATOR:

RUTH MARGARET AGNEW, M.A.

The courses in music which may be taken to fulfill the distribution requirement in Group B are 13, 23. However, if a student is considering a major in the Department, 13 is not advised.

A. Composition

- 11 *Elementary Course.* Basic materials of composition. Sight-singing, ear-training, and exercises in one- and two-voice writing. Three class hours. *Two hours each semester.* M T W 12; W Th F 2, 3. Miss Smith (*Director*), Mr Etler, Mr Gotwals.

MUSIC

- 21 *Intermediate Course.* Materials of composition, continued. Exercises in three- and four-part writing. Prerequisite, 11. *Two hours each semester.* Juniors (and others by permission) may elect a third hour, with an added class hour to be arranged. Th F 10, 11. Miss Rood.
- 33 *Composition in Small Forms.* Prerequisite, 21. Mr Etler.
- 42 *Composition for Small Instrumental Groups.* Prerequisite, 33. Mr Etler.

B. Literature

Unless otherwise stated the prerequisite for Grade III courses in this division is 23.

- 13 *An Introduction to Music.* First semester, observation of the elements of music and musical form. Second semester, a consideration of musical styles from the Renaissance to the present. No previous training in music is required. This course may not be taken as the theory requirement by students receiving credit for practical music. M T 4 and a third hour to be arranged for sections. Mr Keppler.
- 23 *General History of Music.* Prerequisite, 13 or 11. W Th F 3. Miss Silbert.
- 30a *Tonal Organization.* Practice in analytical techniques. Prerequisite, 21. M T W 10. Miss Smith.
- 34b *Solo Song.* Study of representative works to 1920. M T W 10. Miss Smith.
- 35a *Symphonic Developments in the Nineteenth Century.* Qualified students may be admitted on the basis of 13 or 11 by permission of the instructor. W Th F 3. Miss Rood.
- 35b *Nineteenth-Century Opera.* Main trends in Romantic opera with emphasis upon Verdi and Wagner. Qualified students may be admitted on the basis of 13 or 11 by permission of the instructor. W Th F 3. Mr Keppler.
- 37b *Bach, Handel, and Their Contemporaries.* Study of representative vocal and instrumental works. M T W 11. Miss Silbert, Mr Gotwals.
- 38a *Haydn and Mozart.* M T W 9. Miss Silbert.
- 311a *Chamber Music in the Nineteenth Century.* M T W 12. Miss DeRonde.
- 313b *The Literature of the Pianoforte.* M T W 12. Mr Duke.

MUSIC

- 41, 41a, 41b Special Studies in the theory and literature of music. By permission of the Department for senior majors who have had twelve semester hours above Grade I in music. *Two or three hours.*
- 43a *Music in the Sixteenth Century.* The mass, motet, madrigal, and chanson from Josquin through Byrd. M 3-5. Miss Smith.
- 44b *Studies in the Criticism of Music.* Various aspects as represented in important literary works. Two class hours. Miss Silbert.
- 45b *Modern Music.* Prerequisite, 30a. Mr Etler.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged on consultation with the Department. *One hour or more.*
- 52a Special Studies. Special studies in eighteenth-century instrumental music. Mr Keppler.
- [53a *Precedents for Contemporary Procedures.* Mr Etler.]
- [53b *Music in the Fourteenth and Fifteenth Centuries.* Representative examples of sacred and secular composition from Machaut and Landini to Josquin. Miss Smith.]

C. PRACTICAL MUSIC

Courses are offered in the technique and representative literature of the piano, organ, harpsichord, voice, violin, viola, violoncello, flute, oboe, clarinet, and bassoon, and in instrumental ensemble and conducting. There are fees for all courses involving individual instruction and for the use of practice rooms. These fees are listed on page 162 of the *Catalogue*.

Students taking practical music (Division C) to be counted within the minimum fifteen-hour program must take and pass at least an equal number of credit hours from Division A or B (except 13). Any course in Division C and its accompanying course in Division A or B may be counted together as one of the required number of three-hour courses, but each course will receive its full credit.

Courses of Grade I and II normally require one hour of individual instruction and six hours of practice per week and receive *two hours* of credit each semester; but they may, when taken in conjunction with composition 33 or 42, or when taken by junior or senior majors, require nine hours of practice per week and receive *three hours* of credit each semester. *Additional exceptions:* Music 141 and Instrumental Ensemble.

MUSIC

Courses of Grades III, IV, and V, if counted within the minimum fifteen-hour program, will require one hour of individual instruction and nine hours of practice and receive *three hours* of credit each semester.

Qualified students may divide the course, combining two hours credit in one instrument with one hour credit in ensemble.

For juniors and seniors who are not music majors courses of Grades III and IV carrying *two hours* credit are available if taken above the minimum fifteen hour program. These students must have the permission of the instructor and a grade of B or above in the previous course.

No student in practical music will be admitted to a course above Grade II who has received a mark lower than C in the previous course in the same branch.

Before registering for any course in practical music the student must consult members of the Department at the College in May or during the days just previous to the beginning of the first semester.

VOICE, STRINGED INSTRUMENTS, WIND INSTRUMENTS. Beginners are accepted in these branches on the basis of requisite musical aptitude. The instructor of the specific course should be consulted at the times indicated above. Candidates applying for scholarship aid in these courses must perform a piece of their own choice.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J.S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

ORGAN. The prerequisite for organ courses is Music 121 or its equivalent.

Piano. 121, 222, 323, 424, 525. Mr Duke, Mr Robinson, Mr Putman, Miss del Vecchio, Mrs Haigh.

Organ. 232, 333, 434, 535. Mr Gotwals.

Harpsichord. 303, 404. Prerequisite, 222 or 232 and permission of the instructor. Miss Silbert.

Voice. 141 This course will require two class hours, one half-hour lesson, and four hours of practice per week. *One hour each semester.* M T 11; Th F 11.

242, 343, 444, 545. Miss Stahl, Miss Auerswald.

Violin. 151, 252, 353, 454, 555. Mr Banat.

Viola. 161, 262, 363, 464, 565. Miss Rood.

Violoncello. 171, 272, 373, 474, 575. Miss DeRonde.

MUSIC

Woodwind Instruments. 181, 282, 383, 484, 585. Mr Etler (*Director*), oboe; Mr Grass, flute; Mr Lynes, clarinet; Mr Hebert, bassoon.

Instrumental Ensemble. 191a, 191b, 292a, 292b, 393a, 393b, 494a, 494b. Open to qualified students who are taking an instrumental course. These courses require one hour lesson and three hours of practice per week. *One hour each semester.* Miss DeRonde.

321a *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students, by permission of the instructor. Prerequisite, 21 or 23. Two class hours. *One hour.* T 4-6. Miss Hiatt.

321b *Orchestral Conducting.* A study of baton technique and of selected orchestral literature. Prerequisite, 21 or 23; recommended background, 35a. Two class hours. *One hour.* T 4-6. Miss DeRonde.

THE MAJOR

Advisers: Miss Silbert, Miss Rood.

Based on 11.

Essential Courses: 21, 23, 30a and five semester hours above Grade II.

Students majoring in Music will be required to pass a general examination at the end of the senior year. The examination will test analytical, historical, and critical competence in dealing with music of various periods.

Optional Courses: related courses in other fields.

HONORS

Director: Mr Keppler.

Prerequisites: 11, 21, 23.

Program: students will fulfill the requirements of the major, present a paper or composition, and take a minimum of nine semester hours in other departments. Apart from these requirements the program will be planned with the director to meet individual needs.

Examinations: one general comprehensive; one involving critical analysis on a limited field of concentration in literature or composition; one oral.

Unit

Music of the Seventeenth Century. Second semester. Th 4-6. Members of the Department.

Adviser for graduate study: Miss Silbert.

PHILOSOPHY

PROFESSORS:

**ALICE AMBROSE LAZEROWITZ, PH.D., LL.D., *Chairman*

MORRIS LAZEROWITZ, PH.D.

DOROTHY WALSH, PH.D.

ASSISTANT PROFESSOR:

STEN HAROLD STENSON, PH.D.

INSTRUCTORS:

DAVID SHOTWELL SCARROW, PH.D.

ROSALIND EKMAN, A.M.

The courses in philosophy which may be taken to fulfill the distribution requirement in Group C are 11, 22, 24, 33.

- 11 *Introduction to Philosophy.* Reading and discussion of some of the most important classic and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. M T W 9, 10, 11; Th F S 9, 10. Mrs Lazerowitz, Miss Walsh, Mr Stenson, Miss Ekman.
- 21a *Logic.* Introductory course, including study of common fallacies in reasoning, theory of the syllogism, and some modern developments. The course is intended to train the student in effective use of principles of correct thinking. Th F S 9. Mrs Lazerowitz.
- 21b Repetition of 21a. Open to freshmen by permission of the instructor. M T W 12. Mr Lazerowitz.
- 22 *Ethics.* The outstanding moral theories of classical and modern times, with applications to practical problems. Reading will include literature of the Epicureans and Stoics, Aristotle, Kant, Bentham, Mill, Nietzsche, G.E. Moore, the Existentialists. Th F S 9. Mr Scarrow.
- 24 *History of Philosophy from Thales to Kant.* Introduction to philosophy, with emphasis on its historical development. The course should be of use also to students majoring in other fields who wish to obtain an acquaintance with the history of ideas. M T W 11; Th F S 10, 11. Mr Lazerowitz, Mr Scarrow.
- [31b *Advanced Logic.* Postulate sets. The system of *Principia Mathematica*: general propositions; definite descriptions; classes and the theory of types. Prerequisite, 21a or b. Mrs Lazerowitz.]
- [32a *Metaphysics and Language.* Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories which closely resemble scientific theories: theories of time, space,

PHILOSOPHY

substance, causality and freedom, universals, a priori propositions. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.]

- 32b *Epistemology*. General explanation of a new linguistic technique for the solution of philosophical problems. Its application to epistemological and closely related problems: our knowledge of the external world, other minds, the mind-body problem, rationalism and empiricism. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.
- 33 *Aesthetics*. A discussion of problems. Topics dealt with include sensuous structure, emotional expression, symbolism, artistic meaning, truth, value, judgments of appraisal. M T W 9. Miss Walsh.
- 35a *Kant*. A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Prerequisite, 11 or 24. Mr Lazerowitz.
- 36b *Plato*. Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Prerequisite, 11 or 24. M T W 12. Mr Stenson.
- 37a *Philosophy of Religion*. A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dille.
- [37b *Hegel and Hegelianism*. A historical and critical study of Hegel, the man, and his doctrine, his rivals, followers, and opponents. By permission of the instructor, for students who have had 24 or History 38a and b.]
- 310a *American Philosophy*. Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M T W 12. Mr Stenson.
- 311a *Recent and Contemporary Philosophy*. Bradley, Russell, G. E. Moore. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Mrs Lazerowitz.
- 311b *Recent and Contemporary Philosophy*. James, Bergson, Santayana. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Miss Walsh.
- 314a *Philosophical Arguments*. A critical examination of selected philosophical arguments, drawn from the history of philosophy, including the recent past, and of the positions which they purport to establish. The central aim will be to explain the nature of the arguments. Special attention will be given to antinomies. T 3:30-5:30. Mr Lazerowitz, Smith College, and Mr Kennick, Amherst College.

PHILOSOPHY

40b Directed reading and papers for seniors majoring in the Department.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in philosophy. *Two or three hours.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged individually.

[53 *A Systematic Study of Aesthetic Theory.* Miss Walsh.]

[55a *Topics in Logical Theory.* With special reference to foundations of mathematics. Mrs Lazerowitz.]

[56b *Contemporary Ethics.* Mr Scarrow.]

Adviser of graduate study: Mr Lazerowitz.

THE MAJOR

Adviser: Mr Lazerowitz.

Based on six semester hours in philosophy.

Essential Courses: twenty-one semester hours in philosophy, including 24 (unless used as the basis of the major) and 40b. Majors who elect *Recent and Contemporary Philosophy* are required to take both 311a and 311b.

Optional Courses: related courses in other departments.

HONORS

Director: Mr Lazerowitz.

Prerequisites: any year course in philosophy of Grade I or Grade II; in addition 21a or b and Psychology 11a and b or 12 are advised. For other prerequisites for specific programs the director should be consulted.

Program: the requirements for all candidates will consist of a minimum of twenty-four hours in philosophy, plus six hours in philosophy or in a related field. The work in philosophy shall normally include two units or seminars.

Examinations: one on philosophical systems and history of philosophy; one on value theories and methodology; one on some special topic in philosophy or in a related field.

Units

Aesthetics. Six hours. First semester. Miss Walsh.

[*Logic (Theory of Probable Inference).* Three hours. Second semester. Mrs Lazerowitz.]

[*Ethics.* Three hours. First semester. Mr Scarrow.]

British Empiricism. Three hours. Second semester. Mr Scarrow.

PHYSICAL EDUCATION

PROFESSORS:	DOROTHY SEARS AINSWORTH, PH.D., SC.D. (HON.), <i>Director</i> HELEN LOUISE RUSSELL, PH.D.
ASSOCIATE PROFESSORS:	FLORENCE MARIE RYDER, M.S. JANE ADELE MOTT, PH.D.
ASSISTANT PROFESSORS:	RITA MAY BENSON, M.S. IN H.P.E. **ANNE LEE DELANO, A.M. MARTHA COLEMAN MYERS, M.S. IN PHY. ED. CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. EUNICE ELLEN WAY, PH.D. JEAN CAMPBELL, M.S. IN PHY. ED.
LECTURER:	RUTH EVANS, A.M., M.P.E. (HON.), SC.D. (HON.)
INSTRUCTORS:	MARTHA CLUTE, A.M. LEE CHADBOURNE, B.S. JANET MARIE EMERY, B.S. IN ED. JANE ANNE MAVER, M.S. IN PHY. ED. KATHERINE AMSDEN, M.S. IN PHY. ED. GEORGIA MARIE SHAMBES, M.S. IN PHY. ED. PHYLLIS ANNE HOFF, B.S. IN PHY. ED.
TEACHING FELLOW:	CAROLYN ANN STEARNS, A.B.

Physical Education 1a and b and 2a and b are required of all students in the first two years, the type of work being adjusted to the ability, needs, and conditions of individual students. Continuous failure in these courses because of lack of interest or unexcused absences may result in the student's being requested by the President to withdraw from college.

All students who are in physical education classes or use the gymnasium are required to buy uniform suits and shoes.

The Athletic Association, open to all members of the College, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

1a, 1b *Basic Motor Skills, Dance, and Sports*.¹ Three periods of one hour each. Required for freshmen.

¹A small fee is charged for badminton, campcraft, golf, skiing, and tennis. In riding, fees cover the rental of horses.

PHYSICAL EDUCATION

Fall Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

Archery, canoeing, crew, golf, hockey, riding, soccer, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern Dance. Mrs Myers, Miss Stearns.

Folk Dance. Miss Emery.

Winter Term. One period, basic motor skills; two periods, a choice of:

Badminton, basketball, bowling, fencing, riding, squash, swimming, skiing.

Tumbling and apparatus. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

The dance, continuing the fall courses and new sections. Mrs Myers, Miss Stearns.

Folk Dance. Miss Emery.

Spring Term. Three periods, beginning swimming for those who have not passed the test; for others a choice of:

Archery, campcraft, canoeing, crew, golf, lacrosse, riding, softball, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern dance, continuing the fall and winter courses and new sections. Mrs Myers, Miss Stearns.

2a, 2b *Dance and Sports*. Three periods of one hour each. Required for sophomores. Each term a choice of sports and dance as listed under the corresponding term for 1a and b.

A health consultation is required for juniors and seniors, and any student who is falling below a standard which for her is reasonable must take work under the direction of the Department as follows:

3a, 3b Required for these juniors.

4a, 4b Required for these seniors.

Elective Classes and Sports

Juniors and seniors may elect work in any class listed above or in the sports sections for upperclassmen.

In addition there are riding trips under the Riding Club, open-hour swimming at the pool, Outing Club trips, and special sports and dance events.

Courts and other equipment are available to all students when not being used by classes.

B. The Graduate Course in the Training of Teachers of Physical Education

This course is open to students of Smith College and to graduates of other colleges of approved standing. Students entering it will be given the opportunity to specialize

PHYSICAL EDUCATION

in one of four fields: adapted physical education, the dance, recreation (physical education in relation to community service and clubs), sports (in relation to schools and colleges).

The course has as its basic plan classes in science and education as well as physical education. Smith College students may take the scientific and educational courses as undergraduates and in so doing will be able to fulfill the requirements for the degree in one year after graduation.

Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Six semester hours of zoology, nine hours of education, and six hours in one of the following: bacteriology, chemistry, experimental psychology, mathematics, nutrition, physics, zoology should be offered as prerequisites. Students who have satisfactorily completed these courses and the equivalents of Physical Education 33a and b, 42a and b, and 43a and b may become candidates for the degree in the first year; other students normally require two years.

Students who wish to enter the course should present a written statement from a physician that they are in good condition and able to undertake a course in physical education. For further information write to Miss Ainsworth, Scott Gymnasium, for the special booklet describing the course.

33a, 33b *Adapted Physical Education*. The basic teaching material of preventive and corrective phases of physical education as applied to individual developmental needs. M T W 12. Miss Ryder.

42a, 42b *Methods and Materials of Physical Education*. Elementary course including the dance, recreation, and sports. Required in the first year of students entering from other colleges who have not fulfilled the requirement elsewhere. Open to undergraduates only by permission of the Director of Physical Education. Prerequisite for 42b, 42a. Two lectures, six hours of practice. Miss Evans and members of the Department.

43a, 43b *The Physiology and Anatomy of Movement*. An analytical study of human motor activity. Prerequisites, Zoology 12 and permission of the Director of Physical Education. Two one-hour lectures and four hours of laboratory. Lec. Th F 11; lab. Th F 9-11. Miss Ryder.

50, 50a, 50b *Research and Thesis*. *Three or six hours*. Miss Mott. Miss Way.

51a, 51b *Special Studies in* (1) Research, (2) Administration, (3) Recreation, (4) Dance, (5) Adapted Physical Education, (6) The Status of Physical Education here and abroad, (7) Current Problems in Physical Education. Members of the Department.

52a, 52b *Methods and Materials of Physical Education*. Advanced course offering opportunity for the student to specialize in adapted physical education, the

PHYSICAL EDUCATION

dance, recreation, or sports. Theory, two hours; practice, six hours. Members of the Department.

53a, 53b *Gymnastics and Basic Motor Skills*. Theory, one hour; practice, two hours. One hour. Miss Ainsworth, Miss Ryder, Miss Delano.

54a or b *Elementary Measurement in Physical Education*. Miss Mott.

55a *History and Principles of Physical Education*. Miss Ainsworth.

55b *Organization and Administration of Physical Education*. Miss Ainsworth.

56a, 56b *Directed Practice in the Teaching of Physical Education*. Miss Delano.

57a or 57b *Advanced Measurement in Physical Education*. History and methods of testing. Use of statistics and study of special problems. Miss Mott.

PHYSICS

PROFESSORS: GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)
NORA MAY MOHLER, PH.D., SC.D. (HON.)
†WILLIAM TAUSSIG SCOTT, PH.D.

VISITING RESEARCH

PROFESSOR: DOROTHY WRINCH, D.SC.

ASSOCIATE PROFESSORS: JESS J. JOSEPHS, PH.D., *Chairman*
ADAM HENRY SPEES, PH.D.

LABORATORY INSTRUCTOR: PHEBE HAZEL FERRIS COLLINS, A.M.

TEACHING FELLOW: FRANCES K. DURKAN, B.SC.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Physics 11, 15, Physical Science 193 or 194.

Students who enter with a unit in physics may elect Physics 15, or either course in Physical Science.

Students planning to major in physics are advised to elect courses in both physics and mathematics in freshman year.

11 *Fundamentals of Physics*. An introduction to the laws and properties of matter, from the standpoint of mechanics, heat, sound, electricity, light, and atomic structure. Lecture, demonstration, and discussion, three hours; laboratory, two hours. Lec. and dis. M T W 10, 11; lab. M T 2, F 9, 11. Miss Mohler, Mr Spees, Mrs Collins, Miss Durkan.

15 *Intermediate General Physics*. A course covering the same subject matter as 11, but for students who have presented a unit in physics or have passed Physical Science 193 or 194. Open by permission of the instructor to juniors and seniors majoring in other sciences. Three lectures and one three-hour laboratory period. Lec. Th F S 11; lab. T Th 2. Mr Josephs, Mrs Collins.

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- 24a *Electricity and Mechanics.* A laboratory course in intermediate electricity and mechanics. Not open to students who have taken Physics 15. Prerequisite, Physics 11. One discussion and two three-hour laboratory periods. Dis. Th 11; lab. Th F 2. Miss Mohler.
- 24b *Optics and Spectroscopy.* Physical optics and elementary spectroscopy. Prerequisite, Physics 11 or 15. One discussion and two three-hour laboratory periods. Dis. Th 11; lab. Th F 2. Miss Anslow.
- 26b *Musical Acoustics.* An introduction to the study of sound, particularly as it applies to musical instruments and hearing. Lecture and demonstration. One hour. W 7:30-9:30. Mr Josephs.
- 31a, 31b *Electronics.* A semester of experiments in electronics leading to some independent work. Prerequisites, 15 or 24a and Mathematics 21a or 22a. (Mathematics 12 or 13 may be substituted on permission of the instructor.) Two three-hour laboratory periods. Th F 2. Mr Josephs.
- 32a *Mechanics.* Statics and dynamics of particles and rigid bodies. Prerequisites, 11 or 15 and Mathematics 21b or 22b. M T W 12. Miss Anslow.
- 33a *Atomic Physics.* The particle and wave nature of matter and radiation; atomic structure; introduction to relativity theory. Prerequisites, 15 or 24a, or Physics 11 with permission of the instructor, and Mathematics 21a or 22a. M T W 10. Miss Anslow, Miss Mohler.
- 33b *The Nucleus.* An introduction to radioactivity, elementary particles, cosmic rays, and nuclear structure and energy. Prerequisite, 33a. M T W 10. Miss Mohler.
- 34a, 34b *Modern Physics Laboratory.* A semester of experiments in atomic and nuclear physics, including properties of electrons, radioactivity, X-rays, gaseous discharges, cosmic rays, etc. Two three-hour laboratory periods. Prerequisite, 31a or 31b. Th F 2. Mr Spees.
- 40b *The Relation of Classical and Modern Physics.* Discussion of the development of such general laws as the conservation of energy and the law of gravitation; the relation between Newtonian mechanics and relativity and between classical and quantum physics; current philosophical problems in physics. Discussion and reports. For seniors only. One two and one-half hour period. Members of the Department.
- 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in physics. If taken in the

PHYSICS

field of physics teaching, may be elected by physical science and physical-science-and-education majors, by permission of the department. *Two or three hours.*

42 *Advanced Electricity and Magnetism.* Static and dynamic electricity, direct and alternating currents, magnetism and electromagnetic fields, principles of electrochemistry, and of electromagnetic radiation. Prerequisites, 15 or 24a and Mathematics 21b or 22b. Hours to be arranged. Mr Spees.

46b *Heat and Thermodynamics.* A discussion of the laws of heat and thermodynamics, including entropy and the behavior of ideal and real gases. Prerequisites, 15 or 24a and Mathematics 21b or 22b. Miss Anslow.

47a, 47b *Atomic and Molecular Spectra.* Theory and experiments including applications to other sciences. Prerequisites, 24b, or permission of the instructor, and Mathematics 21b or 22b. One hour of lecture and discussion and two three-hour laboratory periods. Lec. Th 11; lab. Th F 2. Miss Anslow.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special topics in such fields as sound, light, electricity and magnetism, statistical mechanics, cosmic rays, and solid state physics. *Two or three hours.*

52a, 52b Selected problems assigned for investigation, experimental work, and discussion. *Three hours or more.*

53a, 53b *Principles of Mathematical Physics.*

54a, 54b *Introduction to Quantum Mechanics.* Mr Josephs.

55a, 55b *Seminar in Nuclear Physics.* *Two hours or more.*

58a, 58b *Advanced Spectroscopy.* Miss Anslow.

59a *Structure of Large Molecules.* Physics, chemistry, and geometry of biologically active molecules. *One hour or more.* Mrs Wrinch.

Adviser of graduate study: Miss Anslow.

PHYSICS

THE MAJOR

Advisers: Miss Mohler, Mr Specs.

Based on 11 or 15.

Essential Courses: 31a or b, 33a and b, 24b or 34a or b, 40b; Mathematics 21a and b, or 22a and b.

Optional Courses: other courses in physics and mathematics above Grade I, Physical Science 391a, and courses in astronomy, chemistry, and geology.

In addition to the essential courses, each student is expected to receive instruction in shop techniques in a two-hour period for one semester.

HONORS

Director: Mr Josephs.

Prerequisites: Physics 11 or 15, and Mathematics 21b or 22b. One or two other courses in mathematics, physics, or chemistry, and a reading knowledge of French or German are advised.

Program:

Essential Courses: 33a and 33b, two semesters of laboratory work in physics above Grade I, the honors paper, and a review unit.

Optional Courses: other physics courses above Grade II; advanced courses in other sciences, mathematics, or philosophy, chosen in consultation with the director.

Examinations: written examinations covering theoretical and experimental phases of the subject in classical physics, modern physics, and in the field of specialization.

PSYCHOLOGY

PROFESSORS:

WILLIAM SENTMAN TAYLOR, PH.D., *Chairman*

HAROLD EDWARD ISRAEL, PH.D.

ELSA MARGAREETA SIIPOLA, PH.D.

ASSISTANT PROFESSORS:

DILMAN JOHN DOLAND, PH.D.

HARVEY BURDICK, PH.D.

RICHARD COLLIER TEEVAN, PH.D.

INSTRUCTOR:

ELINOR STETSON WARDWELL, PH.D.

Unless otherwise indicated, 11a or 12 is prerequisite for every further course.

A student considering a major in the Department is advised to take 11a and b.

Beginning with the Class of 1961, students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group G by taking Psychology 11b and 31a or 31b.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

PSYCHOLOGY

- 11a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Not open to students taking 12. Two lectures and one two-hour demonstration. M T 9, 10, W 9-11; M T 11, 12, W 11-1; M T 2, 3, W 2-4; F S 9, 10, Th 9-11; F S 11, 12, Th 11-1; T W 3, Th 2-4. Miss Siipola (*Director*), Mr Israel, Mr Doland, Mr Burdick, Mr Teevan, Miss Wardwell.
- 11b *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and demonstration, two hours, and one two-hour laboratory period. Open to students who have passed 11a or 12; by permission of the instructor to students taking 12. M T 9, 10, W 9-11; M T 11, 12, W 11-1; M T 2, 3, W 2-4. Mr Israel (*Director*), Miss Wardwell.
- 12 *General Psychology.* Outline of the field and methods of psychology; basic facts and theories, including such topics as motivation, learning, perception, thinking, and personality. Not open to students taking 11a. M T W 9. Mr Taylor.
- 23a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. M T W 9, 10. Mr Teevan, Miss Wardwell.
- 23b A repetition of 23a. Open to freshmen who have passed 11a. Th F S 10, 11. Mr Teevan, Miss Wardwell.
- 24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen who have passed 11a. Lec. M T 9; dis. W 9, 10. Mr Teevan.
- 25b *Introduction to Social Psychology.* The study of group behavior from the point of view of the individual, dealing with his interactions and role-relationships with other group members. The social theories of Mead, Freud, and Fromm will be considered. Topics include: mass behavior, socialization, group conflict, and prejudice. Open to freshmen who have passed 11a. M T W 3. Mr Burdick.
- 31a *Methods in Psychology.* A study of the scientific method and its application to psychological problems with particular reference to experimental design and statistical analysis. Open to sophomores. Prerequisite, 11b. M T W 12. Mr Burdick.
- 31b *Experimental Psychology.* Application of the experimental method to one of the specialized areas of psychology. When enrolling, the student must enter on her 31b class card her choice of three independent sections: (a) sensation and perception, Th F 11-1, Mr Israel; (b) social perception, T W 11-1, Mr

PSYCHOLOGY

Burdick; (c) motivation, Th F 2-4, Mr Teevan. Four class hours including one two-hour laboratory period. Open to sophomores. Prerequisite, 11b. Mr Israel, Mr Burdick, Mr Teevan.

- 35a *Social Psychology of Attitudes and Opinions.* An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. Open to qualified sophomores by permission of the instructor. M T W 10. Mr Burdick.
- 36a *Dynamic and Abnormal Psychology.* General psychology of conscious and sub-conscious motivation, everyday problems and mechanisms of adjustment, psychoneuroses, psychoses, and mental hygiene. Two optional visits to near-by hospitals. For students who have passed 11a or 12 and are majoring in psychology, education, sociology, or premedical science, or by permission of the instructor. M T W 3. Mr Taylor.
- 36b *Dynamic and Abnormal Psychology.* A continuation of 36a, which is prerequisite. M T W 3. Mr Taylor.
- 37b *Psychology of Personality.* Study of the psychological organization of the adult personality, with emphasis upon individuality rather than generalized human nature. Basic concepts and theories: experimental and clinical techniques of investigation; development of adult personality-structure. Open to qualified sophomores by permission of the instructor. M T W 11. Miss Siipola.
- 38a *Introduction to Clinical Psychology.* A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. Th 2-4, F 2. Mr Doland.
- 38b *Mental Tests in Clinical Practice.* Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of 15 hours of practice outside the laboratory. Th 2-4, F 2. Mr Doland.
- 39b *Industrial Psychology.* Psychology of employers, employees, and consumers in regard to production, distribution, and consumption. An optional visit to a near-by factory. Open to qualified sophomores. Prerequisites 11a or 12 and permission of the instructor. M T W 12. Mr Taylor.
- 40a *Theories and Schools of Psychology.* Study of the principal theoretical systems with emphasis on modern schools of behaviorism, gestalt, and psychoanalysis. M T W 2. Mr Israel.

PSYCHOLOGY

- 40b Synoptic Course. Th 7:30-9:30. Miss Siipola with members of the Department.
- 41a, 41b Special Studies. Problems not specifically dealt with by other courses in psychology, such as research problems in experimental psychology, advanced theory, psychology of language, special problems in child psychology, and mental tests. By permission of the Department for senior majors who have had twelve semester hours above Grade I in psychology. *Two or three hours.*
- 42b *Advanced Theoretical Psychology*. Critical study of current theories and examination of theoretical issues involved in selected problems. Prerequisite, 40a and permission of the instructor. Mr Israel.
- 43b *Comparative Psychology* (seminar). Evolution of animal behavior, with emphasis on discrimination, motivation, and modifiability. Reports on special problems such as infrahuman social behavior, the experimental neurosis, inheritance of behavior traits. Mr Israel, Miss Horner.
- 44a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite, 23a or b. Mr Teevan.
- [45b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Open to qualified juniors by permission of the instructor. Prerequisite, 25b or 35a or permission of the instructor. Offered in alternate years; to be given in 1960-61. T 7:30-9:30. Mr Burdick.]
- 47a *Psychology of Personality* (seminar). Intensive study of projective techniques of investigating personality. Supervised practice with standard techniques. Prerequisite, 37b. Th 11-1. Miss Siipola.
- 48b *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: theories of personality development; emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite, at least one of the following: 23a or b, 37b, or 38a. W 7:30-9:30. Mr Doland.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced Studies. Similar to 41a and b. *One hour or more.*
- 52a, 52b *Seminar in Current Psychological Problems*. Also for senior honors students by permission. *One hour or more.*

PSYCHOLOGY

56 *Abnormal Psychology*. Students will be required to attend the lectures in 36a and b. Mr Taylor.

Speech 58a *Experimental Phonetics*.

Adviser of graduate study: Mr Doland.

THE MAJOR

Advisers: Members of the Department.

Based on six semester hours in psychology including 11a or 12.

Essential Courses: twenty-one semester hours in psychology including 11b, 40a, and 40b.

Optional Courses: other courses in psychology and appropriate courses in other departments.

HONORS

Director: Mr Israel.

Prerequisite: 11b. Courses in zoology, physics, and sociology are useful as background.

Program: 40a and 31a, twelve hours in other psychology courses, and six devoted to a long paper and review; nine additional hours in psychology or related subjects.

Examinations: one on general experimental and theoretical psychology; one on other fields of psychology; one a more specialized type.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	VIRGINIA CORWIN, B.D., PH.D.
ASSOCIATE PROFESSOR:	ROBERT CRAIG, S.T.M., PH.D.
ASSISTANT PROFESSORS:	RICHARD PRESTON UNSWORTH, A.B., B.D. ROBERT A. GESSERT, B.S.E.E., B.D. WILLIAM FRANCIS MAY, A.B., B.D., <i>Chairman</i> BRUCE THEODORE DAHLBERG, A.B., B.D.
INSTRUCTORS:	FRANK BROWN DILLEY, B.D., M.A. SIDSEL MARIE KROSBY, CAND. THEOL.

The courses in religion which may be taken to fulfill the distribution requirement are, in Group A, 11; in Group C, 14, 28b, 31a and b, 33a, 34, 35a, b, 37a.

- 11 *Introduction to the Bible*. The literature of the Bible as expressing the religion of the Hebrew prophets, lawgivers, historians, and poets, and the early Christians. M T W 9, Th F S 9 (for upperclassmen); M T W 12 (for freshmen). Miss Corwin, Mr Dahlberg, Mr Dilley.

RELIGION & BIBLICAL LITERATURE

- 14 *Introduction to the Study of Religion.* Teachings of contemporary Judaism, Roman Catholicism, and Protestantism. Religious interpretations of modern man's life and culture. For freshmen and sophomores only. Lec. Th 10. Dis. (for freshmen) M T 3; Th F 3; F S 10; (for sophomores) M T 2; Th F 2, 3; F S 10. Miss Corwin, Mr Craig, Mr Unsworth, Mr Gessert, Mr May, Mr Dilley.
- 23 *Religion and Social Responsibility.* Study of the effect of religious thought and practice on social, economic, and political life in the modern world. Religious principles as a basis for social policy and action in the fields of race and inter-group relations, business and industry, government, international affairs. M T W 3. Mr Gessert.
- [25a *Greek New Testament.* Prerequisite, Greek 11, or the equivalent. Hours to be arranged. Mr Unsworth.]
- 27b *Life and Teachings of Paul.* Prerequisite, 11, or by permission. Offered in alternate years. M T W 12. Mr Craig.
- 28b *Judaism.* Its history and literature from the beginnings to modern times. Biblical origins, Dead Sea Covenanters, other sectarian movements, the great rabbis, philosophers, and mystics. Sociological and theological currents in the modern period. M T W 9. Mr Dahlberg.
- [29 *Hebrew.* Elementary course with readings from narratives of the Old Testament. Mr Dahlberg.]
- 31a *History of Christian Thought through the Middle Ages.* The early church fathers, Augustine, and medieval scholasticism. Th F S 9. Mr May.
- 31b *History of Christian Thought since the Middle Ages.* The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. Th F S 9. Mr May.
- 32b *Religion in America.* Religious thought and institutions and their influence on American culture. M T W 2. Mr Gessert.
- 33a *Christian Ethics.* Major historical systems. Ethics in the thought of modern theologians, such as Maritain, Niebuhr, and Tillich. Crucial problems in developing an ethic in contemporary thought. M T W 2. Mr Gessert.
- 34 *Contemporary Religious Thought.* The nature and validity of religion in the light of contemporary anthropological evidence and anti-religious thought. The positions of representative modern thinkers including Berdyaev, the Neo-Thomists, Heschel, Tillich, Temple. M T W 11. Mr Craig.

RELIGION & BIBLICAL LITERATURE

- 35a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world and man in the periods of greatest influence in India, China, and Japan. Temples, observances, and methods of inner personal development. Modern thinkers and movements. Th F S 11. Miss Corwin.
- 35b *Islam.* The formative period: Muhammed, the Quran, the law. The mediaeval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world. To alternate with Religion 39b. Th F S 11. Miss Corwin.
- [36a *Problems of the Individual in the Bible.* His rewards and sufferings, his search for mediation between God and man, based on such books as Jeremiah, Job, the Fourth Gospel, Ephesians. Th 2-4, F 2.]
- 37a *Philosophy of Religion.* A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dilley.
- 39a *Old Testament Theology.* Creation, sin, redemption and other basic themes. Hebrew concepts of God, the word, soul, history, death compared with Greek and ancient Near Eastern counterparts. Open to students who have taken Religion 11 or by permission. M T 2, F 12. Mr Dahlberg.
- [39b *Jesus in the Gospels.* A study of his teaching and mission based on the first three gospels. Open to students who have taken Religion 11. To alternate with Religion 35b. Th F S 11. Miss Corwin.]
- 40b *Religion, Its Nature and Functions.* Readings and discussions. T 4-6.
- 41, 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in religion. Two or three hours.
- 42a *Existentialism and Theology* (seminar). Studies in Kierkegaard, Berdyaev, Tillich, and others. By permission of the instructor. Th 4. Mr May.
- 50, 50a, 50b Research and Thesis. Three or six hours.
- 51a, 51b Advanced Studies. One hour or more.
- Adviser of graduate study: Mr May.

THE MAJOR

Advisers: Miss Corwin, Mr Craig, Mr Dilley.

RELIGION & BIBLICAL LITERATURE

Based on 11 or 14.

Essential Courses: twenty-one semester hours in religion, including 40b, six hours in Biblical studies (three for those who have taken 11 before the junior year), and six hours in religious thought.

Optional Courses: other courses in religion and in related departments.

HONORS

Directors: Mr May, Mr Gessert, Mr Dahlberg.

Prerequisite: 11 or 14.

Program: six semester hours in courses or units in Biblical studies (three for those who have taken 11 before the junior year) and six in religious thought; in senior year one unit for the preparation of the paper and one for review. The greater portion of the work will be in units and courses in the Department, with work in related fields approved by the director.

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

Examinations: one in a selected field of concentration; one in the general field of the major; one oral, relating the subject of the honors paper to the field of the major.

Units

Studies in the Old Testament. First semester. Mr Dahlberg.

[*Studies in the New Testament.* Miss Corwin.]

History of Christian Thought. Second semester. Mr May.

Judaism. Second semester. Mr Dahlberg.

Religion, Ethics, and Society. First semester. Mr Gessert.

History of Religions. First semester. Miss Corwin.

Contemporary Religious Thought. Second semester. Mr Craig.

Philosophy of Religion. First semester. Mr Dilley.

RUSSIAN LANGUAGE & LITERATURE

PROFESSOR:

†HELEN MUCHNIC, PH.D.

ASSOCIATE PROFESSORS:

CATHERINE A. PASTUHOVA, PH.D., *Chairman*

†GEORGE GIBIAN, PH.D.

ASSISTANT PROFESSOR:

IGOR ZELLJADT, M.A.

LECTURERS:

VALERIAN F. KOLESOFF, B.S.

ELISABETH SCHOUVALOFF

The courses in Russian which may be taken to fulfill the distribution requirement in Group A are 23, 26, 35a and b, 36a.

RUSSIAN LANGUAGE & LITERATURE

- 11 *Elementary Course.* M T W 9, 10, 11. Members of the Department.
- 21a *Selections from Russian Prose and Poetry.* Prerequisite, 11 or the equivalent. M T W 9, 10. Members of the Department. (L)
- 21b *Selections from Russian Prose and Poetry.* Prerequisite, 21a or 22a. M T W 9, 10. Members of the Department. (L)
- 22a *Scientific Russian.* Reading and translation of scientific materials. Review of grammar. Mathematical and physical terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 22b *Scientific Russian.* Reading and translation of scientific materials. Chemical, biological, economic and geographic terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 23 *Literature of the Nineteenth Century.* Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy, with discussion of important trends in social and aesthetic ideas which they represent. Conducted in Russian. Prerequisite, 21 or the equivalent. M 3-4, T 7-9. (L)
- 31 *Advanced Course.* Reading from classical and Soviet literature, with emphasis on roots and structure of the language, based on the history of Russian civilization. Prerequisite, six hours of Grade II courses in the Russian language. (L)

LITERATURE IN TRANSLATION

- 26b *History of Russian Literature.* From Pushkin to Turgenev. M T W 12.
- [35a *Tolstoy.* M T W 11.]
- 35b *Dostoevsky.* M T W 11.
- [36a *Russian Drama.* Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. By permission of the instructor. M T W 9. Mr Gibian.]
- 40b Review Unit.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Russian. *Two or three hours.* Members of the Department.
- [42b *Seminar in Soviet-Russian Literature.* Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. T 4-6. Mr Gibian.]

RUSSIAN LANGUAGE & LITERATURE

THE MAJORS

Advisers: Members of the Department.

A. *Russian Major*

Based on 21a, 21b.

Essential Courses: 23, 26, 35a, 35b, 40b, History 217a, 217b.

Optional Courses: 31, 36a, 42b, Economics 319a, Government 36b, Humanities, History and Social Science 493, other courses in related fields.

B. *Major in Russian Civilization*

Based on 11 and History 11.

Essential Courses: 21a, 21b, 26, 35a, 35b, 40b, Economics 319a or Government 36b, History 217a.

Optional Courses: 36a, 42b, further work in Russian language, Humanities, History and Social Science 493, courses in related fields.

HONORS

Director: Mr Zelljadt.

Prerequisites: 21a, 21b, 26.

Program: 23, 35a, 35b, 36a, 42b, History 217a; at least twelve hours in units and seminars in the department or in other departments within the field of correlation; a long paper in first semester of senior year to count for three hours.

Examinations: (1) on the whole field of Russian literature; (2) on Russian history; (3) on the field of correlation; (4) on language with translation from Russian into English, and from English into Russian, and a brief composition in Russian.

For students who choose honors in Russian Civilization an appropriate course in government or economics will be substituted for Russian 23 and the examination in language will be omitted.

SOCIOLOGY & ANTHROPOLOGY

PROFESSORS:

CHARLES HUNT PAGE, PH.D.

NEAL BREAULE DENOOD, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

†ELY CHINOY, PH.D.

ASSISTANT PROFESSORS:

MICHAEL SEYMOUR OLMSTED, PH.D.

ALLEN HOWARD KASSOF, A.M.

LECTURERS:

HOWARD J. PARAD, M.S. IN S.S., Director of the Smith College School for Social Work

ALFRED HARRIS, PH.D.

VISITING LECTURER:

¹NATHAN GLAZER, A.M.

SOCIOLOGY & ANTHROPOLOGY

Among the courses which may be taken to fulfill the distribution requirement in Group E are 11a and b, 11a and 23b, and Social Science 192.

Students planning to major or to do honors work in the department are advised to take introductory courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

Students who plan to enter the field of social work should consult their major advisers regarding desirable courses.

Grade III courses, except 312a, are open to sophomores with prerequisite and permission of the instructor.

The prerequisite for all Grade II and III courses, unless otherwise specified, is 11a, 26, 27b, or Social Science 192.

- 11a *Introduction to Sociology and Anthropology.* Society, culture, and human behavior. Major institutions and forms of social organization: family, classes and ethnic groups, bureaucracy, property, power, religion, community. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Olmsted (*Director*) and members of the department.
- 11b *Industrial Society.* Comparative analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. Problems of integration, conflict, and change. Prerequisite, 11a. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Olmsted (*Director*) and members of the department.
- 21a *Urban Sociology.* Comparative study of cities; social relations in the city; problems of urban and suburban growth and development; the urbanization of American society. M T W 2. Mr Glazer.
- 23b *Social Anthropology.* Comparative study of the social, religious, and political structure of selected pre-literate societies. M T W 12. Mr Harris.
- 32a *Social Disorganization.* Theory of social disorganization; delinquency, crime, and related problems. Open also to students who have passed Psychology 11a or Psychology 12. Th F S 9. Mr DeNood.
- 32b *Social Disorganization.* Family disorganization; mental deficiency and pathology; and related problems. Optional field trip. Open also to students who have passed Psychology 11a or Psychology 12. Th F S 9. Mr DeNood.
- 34a *Culture Contact and Change.* Anthropological analysis of contact between Western and non-Western cultures and current social changes. Cases selected from Latin America, Africa, and the Middle East. M T W 11. Mr Harris.

SOCIOLOGY & ANTHROPOLOGY

- 34b *Culture Contact and Change*. Similar to 34a. Cases selected from Asia and the Pacific. M T W 11. Mr Harris.
- 35b *The Modern Family*. Analysis of courtship, marriage, and family life with relation to changing and persistent values and attitudes; emphasis on women's roles. Open also to students who have passed Psychology 11a or Psychology 12. Th F S 10. Mr Page.
- 37a *Racial and Ethnic Relations*. The application of sociological and anthropological findings to the study of "minority group" relations in the modern world, with particular emphasis on the United States. M T W 10. Mr Glazer.
- 38b *The Sociology of Social Planning*. Study and analysis of social planning in health, education, recreation, welfare, housing, and community reorganization. Emphasis on twentieth-century developments in the United States. Th F S 11. Mr DeNood.
- [39a *Social Work in the American Community*. Development and theory of modern social services; the basic processes: casework, group work, and community organization. Prerequisite, the introductory course in economics, government, psychology, sociology, or Social Science 192. M T W 10. Mr Parad.]
- 310a *Religion and Society*. Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive religion and Christianity. M T W 9. Mr Olmsted.
- [311a *Class Structure in American Society*. Analysis of the American class system, with particular emphasis upon the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 3. Mr Chinoy.]
- 312a *Selected Sociological Theories*. Critical analysis and application of theories of Durkheim, Sumner, Simmel, Cooley, Weber, Thomas, and Znaniecki. Prerequisite, 11a and b, 26, 27b, or permission of the instructor. Th F S 11. Mr DeNood.
- [313b *The Sociology of Occupations*. Analysis of occupational roles and the social organization of work. Professionalization; bureaucracy and white collar employment; automation and manual labor. Consideration of the problems of gainfully employed women. M T W 3.]

SOCIOLOGY & ANTHROPOLOGY

- 324b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. M 12 T 4-6. Mr Mair.
- 40b *Problems of Scope and Method.* Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. Mr Olmsted (*Director*).
- 41, 41a, 41b *Special Studies.* By permission of the Department for senior majors in the department. *Two or three hours.*
- 43b *Seminar in Social Research.* The logic and methods of social research and research techniques; their application to a specific project of current interest. By permission of the instructor. Mr Kassof.
- 44b *Seminar in Social Institutions.* Structure, functions, dynamics, and integration of contemporary institutions. By permission of the instructor. Mr DeNood.
- [45a *Seminar in Social and Cultural Change.* Theories of social change. Analysis of selected social and cultural trends in the mass society. By permission of the instructor. Alternates with 46a. Mr Page.]
- 46a *Seminar in Sociological Analysis of Popular Culture.* Emergence of popular or "mass" culture and its implications for individual and society; analysis of trends in recreation, entertainment, and mass media of communication. By permission of the instructor. Mr Page.
- 47a *Seminar in Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency, family disorganization, and the social aspects of mental health. By permission of the instructor. Mr DeNood.

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* Church and State in the Modern World. A study of the relations between the Christian churches and political authority since the French Revolution. Examples will be chosen from the recent history of selected countries in Europe and Latin America as well as of the United States. Mr Lewy (*Director*), Mr Ruiz, Mr Gessert.

SOCIOLOGY & ANTHROPOLOGY

51, 51a, 51b Special Advanced Studies in such subjects as advanced theory, social organization and disorganization, culture contacts, problems of scientific methodology. *One hour or more.*

Adviser of graduate study: Mr Page.

THE MAJOR

Advisers: Mr Page, Mr DeNood, Mr Olmsted, Mr Kassof, Mr Harris.

Based on one of the following: 26; 11a and b; 11a and 23b; Social Science 192 and 23b.

Essential Courses: twenty-one semester hours in the department including 312a and 40b.

Optional Courses: other courses in the department; appropriate courses in allied departments.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Year Abroad.

HONORS

Director: Mr Chinoy (1958-59), Mr Olmsted (1959-60).

Prerequisite: Candidates are urged to take introductory courses in two or more of the following fields: economics, government, history, philosophy, psychology.

Program: units, seminars, and courses, including six hours in theory, preferably in junior year; three or six hours for a long paper in first semester of senior year; three hours for directed reading and review in the second semester; and fifteen additional hours in the department and related fields.

Examinations: three, in selected fields of concentration and sociological theory.

Units

The units will count normally for three hours each.

Basic Sociological Theory. First semester. Mr DeNood.

Current Problems in Social Theory. Second semester. Mr Page or Mr Olmsted.

Problems in Social Anthropology. Second semester. Mr Harris.

[*Social Stratification.* First semester. Mr Chinoy.]

Selected Studies in Soviet Society. Second semester. Mr Kassof.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

PROFESSORS:	RUTH LEE KENNEDY, PH.D., <i>Chairman</i> KATHERINE REDING WHITMORE, D.LIT. (MADRID)
ASSOCIATE PROFESSORS:	†HELEN JEANNETTE PEIRCE, A.M. JOAQUINA NAVARRO, PH.D. *MANUEL E. DURÁN, PH.D.
INSTRUCTORS:	A. DOLORES BROWN, PH.D. ‡SANFORD SHEPARD, PH.D. ERNA RUTH BERNDT, PH.D. NATALIA MARRUJO RUIZ, B.A.

The course in Spanish which may be taken to fulfill the distribution requirement in Group A is 25.

The following preparation is recommended for students who intend to take the Spanish or Latin-American major: courses in classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- [21 *Elementary Portuguese*. Prerequisite, two years of Spanish or permission of the instructor. Miss Peirce.]
- [22a, 22b *Reading of Modern Portuguese Prose*. Prerequisite, 21. One hour. Miss Peirce.]

SPANISH

A. Language

- 11 *Elementary Course*. M T W 3, Th F S 10. Members of the Department.
- 11D *Elementary Course* (covering the work of two years). *Six hours each semester*. M T W Th F 11, and one hour to be arranged. Members of the Department. (L)
- 12 *Intermediate Course*. Grammar review and reading of modern prose. Prerequisite, two units in Spanish or 11. M T W 9, 10; Th F S 9. Members of the Department. (L)
- 13 *Grammar, Composition, and Reading*. Discussion of modern Spanish novels, plays, and poetry. Prerequisite, three units in Spanish. M T W 9. Members of the Department. (L)

S PANISH & PORTUGUESE LANGUAGES & LITERATURES

- 21a *Prose Composition*. Prerequisite, 11b, 12, 13, or 16. Th F 2 and one hour to be arranged.
- 31b *Advanced Prose Composition*. Prerequisite, 21a. Th F 2. One hour to be arranged.
- 32a or 32b *Teachers' Course*. Review of Spanish grammar. Discussion of methods. Practice teaching. Prerequisite, 21a or 25.
- [33b *Advanced Translation into English*. The material to be translated will be taken from current publications, letters, technical articles.]

B. Conversation

- 14a, 14b *Conversation*. Two class hours. One hour. M T 3.
- 24b *Theoretical and Practical Phonetics*. Exercises in hearing and pronunciation. Open to students who plan to spend their junior year in Madrid and to others by permission. Two class hours. One hour. M T 12

C. Literature

The prerequisite for courses of Grade III in this division is 25.

- 16 *A Study of Some Aspects of Spanish Life and Culture*. Reading in Spanish, discussion in English. Prerequisite, three units in Spanish or 12 or 11b. Th F S 11. Members of the Department. (L)
- 25 *Reading of Modern Novels, Plays, and Poetry*. Prerequisite, four units in Spanish, 11b, 12, 13, or 16. M T W 11; Th F S 12. Members of the Department. (L)
- 34a *Masterpieces of Spanish Literature to the Beginning of the Sixteenth Century*. Th F S 10. Miss Brown.
- 35b *Literature of the Spanish Renaissance*. Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz. Th 4-6, F 4. Mr Durán.
- 36a *Cervantes: Don Quijote*. Th 4-6, F 4. Miss Kennedy.
- 36b *Drama of the Seventeenth Century*. Lope de Vega, Tirso de Molina, Calderon. Miss Kennedy.
- 37a *Nineteenth Century: The Romantic Period*. M T W 11. Miss Navarro.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 37b *Nineteenth Century: The Modern Novel.* M T W 12. Mrs Whitmore.
- 38a *Contemporary Spanish Literature.* M T W 12. Mrs Whitmore.
- 310a, 310b *South American Literature.* A study of representative works and authors from the colonial period to the present. Recommended background, History 13 or 325a. Miss Navarro.
- 40b Correlation of work in the major field.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Spanish. *Two or three hours.*

D. Graduate Courses

Students who wish to do graduate work in the Department are required to have a knowledge of Latin.

- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies in Spanish literature, arranged in consultation with the adviser of graduate study, on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.
- 52 *History of the Spanish Language.* Miss Navarro.
- 53a or 53b *Spanish Bibliography and Literary Methods.* Miss Kennedy.
- [54a *Spanish Poetry since 1898.* A detailed examination of the main currents of Spanish contemporary poetry from Unamuno to Lorca emphasizing stylistic analysis. Mr Durán.]
- 56b *Techniques of the Contemporary Spanish Novel.* Main trends of the Spanish contemporary novel. Stylistic devices, problems in characterization and literary acculturation. Close analysis of several novels. Mr Durán.

Adviser of graduate study: Miss Kennedy.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

THE MAJORS

A. The Spanish Major

Adviser: Miss Kennedy.

Based on 11b, 12, 13, or 16.

Essential Courses: from Division A, 21a and 31b, except for students who have been Juniors in Spain; from Division C, 40b and nine semester hours above Grade II normally so distributed as to include work in each of the three major periods.

Optional Courses: other Spanish courses above Grade I or courses in related departments.

B. The Latin-American Major

Adviser: Miss Navarro.

Based on 11b, 12, 13, or 16.

Essential Courses: 310a, 310b, 40b; History 325a.

Optional Courses: 31b, any Grade III course from Division C; Portuguese 21, 22a and b; History 420b; Geology 32a; Sociology and Anthropology 34a; any course of Grade III or IV treating some phase of Latin-American Civilization.

HONORS

Director: Mrs Whitmore.

Prerequisites: 11b or the equivalent; 25 and, if possible, 21a and 31b.

Program:

Minimum requirement: one unit in language before second semester of senior year; a paper and review in senior year.

Optional courses or units to be selected in consultation with the director.

Examinations: (a) on the whole field; (b) on a special field; (c) on a great writer *not* of the special field.

SPEECH

ASSISTANT PROFESSOR:

CHARLOTTE H. FITCH, A.M., *Chairman*

VISITING LECTURER:

CLARENCE V. HUDGINS, PH.D.

INSTRUCTORS:

VINCENT C. BRANN, A.M.

BEVERLY WILSON MAY, M.F.A.

11a *Introduction to Speech.* Theoretical and practical foundation in the common speech elements of public speaking, discussion, and interpretation. Individual conferences and recordings. M T W 10. Members of the Department.

SPEECH

- 11b Repetition of 11a.
- 12a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 11. Miss Fitch.
- 12b Repetition of 12a. M T W 10.
- 21a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. Open to freshmen by permission of the instructor. Two class hours. *One hour.* M T 2. Miss Fitch.
- 21b Repetition of 21a. Th F 12.
- 22b *Voice Training.* Continuation of 21a. M T 2.
- 23b *Public Speaking.* Principles, history, and criticism of public address and practice in expository and persuasive speaking. M T W 12.
- 26a *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background, Speech 12a or b. M T W 11. Mrs May.
- 26b Repetition of 26a. Open to freshmen who have had 12a. M T W 11. Mrs May.
- [28 *Phonetics for Foreign Students.* Formation of English speech sounds, their distribution in connected speech, stress, intonation, and rhythm. Two class hours. *One hour each semester.* Th F 12. Miss Fitch.]
- [31 *Radio.* History, principles, and techniques of radio production. Practical experience in selected types of radio programs. Four class hours. M Th 4-6.]
- 33a *Discussion.* Principles and methods of discussion and their application in the consideration of contemporary problems. M T W 12.
- 35b *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background, three semester hours in Speech, preferably 26a or b. M T W 12 Miss Fitch.

SPEECH

- 38b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. M T 12 and a practice hour to be arranged. Mrs May.
- 41a, 41b Special Studies. By permission of the department.
- 48a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 12 and an hour for practice and observation to be arranged. Miss Fitch.
- 58a *Experimental Phonetics.* The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites, a fundamental course in speech and Physics 11 or Psychology 11a, or permission of the instructor. Mr Hudgins.

THEATRE

PROFESSOR:	SAMUEL ATKINS ELIOT, A.B.
ASSOCIATE PROFESSORS:	EDITH BURNETT, B.S. DENTON M. SNYDER, M.A., <i>Chairman</i>
VISITING LECTURER:	WILLIAM DENIS JOHNSTON, M.A., LL.M.
INSTRUCTORS:	**HELEN KRICH CHINOY, A.M. JACKSON G. BARRY, A.M. VINCENT C. BRANN, A.M.
TEACHING FELLOWS:	IRENE ELIZABETH ELMER, B.A. ROBERTA KIMBROUGH SWARR, B.A.
ASSISTANT:	EMILY H. WADHAMS

The courses in Theatre which may be taken to fulfill the distribution requirement are, in Group A, 23 and, in Group B, 11.

A. HISTORICAL AND THEORETICAL COURSES

- 11 *Introduction to Theatre.* Analysis of the basic elements of drama in performance and survey of theatrical forms from ancient times to the present day. Lectures, discussions, demonstrations. Lec. M T W 11. Mrs Chinoy, Mr Brann.
- 23 *Forms of the Drama.* A study of the principal forms, European and Asiatic, with special attention to the different kinds of theatre and to the greatest plays and playwrights from Aeschylus to Hebbel. M T W 3. Mr Eliot.

THEATRE

- 31b *American Theatre and Drama.* Origin and early growth; evolution of an American style in theatrical art; development of American drama, especially since 1914. Emphasis on plays from Eugene O'Neill to Tennessee Williams. M T W 12. Mr Brann.
- 35 *Modern European Drama.* Drama (in translation) in Russia, Norway (Ibsen, Bjornson), Sweden (Strindberg), France after 1848, Germany after 1888, Austria, Hungary, Italy, and Spain. M 4-6, T 4. Mr Eliot.
- 36b *Drama in Asia.* India, the Indo-Chinese and Malay countries, Tibet, China, and Japan. Mr Eliot.
- 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.
- 45a *Theatre Criticism.* A course designed to provide a basis for criticism of theatre; theories of criticism applied to the play and production. Recommended background, Theatre 11. W 2-4. Mrs Chinoy.
- 46a *Shaw and some of his Contemporaries.* Important plays, British, Irish, and American, of the last hundred years. Th 4-6, F 4. Mr Eliot.

B. Theatre Practice

Not more than six hours in 12a, 12b, 24a, 24b may be counted toward the 120 hours required for the degree.

- 12a, 12b *Dance and Mime.* Technique and elementary composition. Prerequisite for 12b, 12a. T 9; four supervised practice hours, Th F 11-1. Miss Burnett.
- 22 *Technique—Dance and Mime.* One hour each semester. Th 4-6. Miss Burnett.
- 24a *Mounting the Play.* A study of general architectural features of theatres that bear upon the problems of mounting plays and the fundamental techniques and methods of production. Two hours of lectures and one laboratory hour of practice in basic movement for stage action. M 9-11, W 9. Mr Snyder (*Director*), Miss Burnett.
- 24b *Acting.* Exercises in concentration, imagination, and observation, preparatory to a study of the actor's approach to a role. Lecture-recitation and one laboratory hour of practice in basic movement for stage action. M 9-11, W 9. Mr Barry (*Director*), Miss Burnett.

THEATRE

- 32a *History of Dance.* A survey with practice in selected period forms. Prerequisite, 12a, b. Lec. M 11-1; studio hours, T W 11-1. Miss Burnett.
- 32b *Choreography.* Advanced course designed to emphasize individual and group creative expression through the medium of modern dance. Technique, original composition, and production. Prerequisite, 32a. Six studio hours. M T W 11-1. Miss Burnett.
- 33 *Acting.* Advanced techniques for the interpretation of contemporary and classical dramatic literature. Scenes and exercises. Prerequisite, 24b, or by permission. Recommended background 12a, 12b. Lec.-rec. M 2-4, one hour lab. to be arranged. Mr Barry.
- *34a, 34b *Scene Design.* A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite, 24a. Prerequisite for 34b, 34a, or permission of the instructor. T 2, Th 2-4. Mr Snyder.
- 37a, 37b *Play Analysis and Creative Writing for the Dramatic Mediums: Theatre, Radio, and Television.* The student will either have practice in writing for one of these mediums or study the elements of play structure and dramatic composition. M 9, W 9. Mr Johnston.
- 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.
- 42a, 42b *Advanced Playwriting.* Prerequisite, 37a or b or the equivalent. One hour or more. Mr Eliot.
- *44a, 44b *Directing.* The study and application of directorial techniques: casting, rehearsal, movement and grouping, stage business, and dramatic interpretation. Assignments and projects in 44a based on contemporary plays; in 44b based on classical plays. Prerequisite for 44b, 44a. T 2, Th 11-1. Mr Barry.

C. Graduate Courses

- 50a and b *Research and Thesis.* Three or six hours. Members of the Department.
- 51a and b *Advanced Studies* arranged in consultation with the Department. One hour or more.

*Six hours of crew work per week will be required during each of the four-week preparation periods for the major productions.

THEATRE

- 52 *Rehearsal and Production.* Theory and practice on Department productions; advanced work in direction, acting, lighting, and stage design. *Three or six hours each semester.* Members of the Department.

Adviser of graduate study: Mr Snyder.

THE MAJOR

Adviser: Mr Snyder.

Based on 11.

Essential Courses: 44a and b, and twelve hours in Theatre, of which at least nine hours must be from Division A.

Optional Courses: Other courses in Theatre, or courses in other departments.

A winter field trip of two days for majors and graduate students.

HONORS

Director: Mr Snyder.

Prerequisites: Theatre 11.

Program: The requirement will consist of

(1) a course of study arranged for the junior and senior years with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director.

(2) An independent piece of work counting for six hours which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, direction, or stagecraft.

Examinations: two written and one oral along the following lines: historical, theoretical and literary, technical.

ZOOLOGY

PROFESSORS:	ERNEST CHARLES DRIVER, PH.D. LOIS EVELYN TE WINKEL, PH.D. ESTHER CARPENTER, PH.D., D.SC. (HON.), <i>Chairman</i>
ASSOCIATE PROFESSORS:	**ELIZABETH SANDERS HOBBS, D.SC. B. ELIZABETH HORNER, PH.D. GEORGE WARREN DE VILLAFRANCA, PH.D.
INSTRUCTORS:	MARY HODGE LAPRADE, PH.D. MARY DAWSON, PH.D. AMELIA POLNIK, PH.D.
TEACHING FELLOWS:	CAROL EVANGELINE MARSCHHAUS, B.S. MARY ELIZABETH ROWE, A.B.

Among the courses which may be taken to fulfill the distribution requirement in Division III are 11, 12, Biological Science 195.

Students planning to major in zoology are advised to take 11 in freshman year and general botany or chemistry before the junior year. See also preparation required for honors work.

- 11 *General Zoology*. Introduction to the study of animals, including the fundamental principles of biology and a comprehensive survey of the animal kingdom. Laboratory work consists of dissection, experiments, and practice in the use of the microscope. Two lectures and two two-hour laboratory periods. Lec. Th F 2. Lab. M T 9, 11; Th F 9, 11. Miss Carpenter, Mrs Hobbs, Miss Horner, Mrs Laprade.
- 11b The second semester of 11 for students who have passed 12, Biological Science 195, or Botany 11. Hours and instructors as in 11.
- 12 *The Anatomy and Physiology of Man and Other Mammals*. A study of the structure and functions of systems for support, motion, nutrition, reproduction, control, and integration. Two lectures and two two-hour laboratory periods. Lec. Th F 11. Lab. M T 9, 11, 2, 4; Th F 9, 2. Miss Te Winkel, Mr de Villafranca, Miss Dawson, Miss Polnik.
- 22 *Comparative Anatomy of Vertebrates*. Comparison and probable evolution of structures in a series of chordates from amphioxus to mammal. Prerequisite, 11, 12, or Biological Science 195; open to geology majors by permission of the instructor. Two lectures and two two-hour laboratory periods. Lec. M T 11; lab. M T 2, Th F 9, 2. Miss Horner, Miss Dawson.

ZOOLOGY

- 23b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their interesting features as individual animals, their relationships to each other, their use in biological and medical research, and their effect on man. Prerequisite, 11, 11b, or by permission of the instructor. Two hours of lecture, four hours of laboratory. M T 2-5. Mrs Laprade.
- 32a *Vertebrate Physiology*. A study of nutrition, digestion, circulation, metabolism, and excretion in man and other vertebrates. Prerequisites, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Mr de Villafranca.
- 32b *Cellular Physiology*. A study of contractility, irritability, conductivity, permeability, and respiration at the cellular level. Prerequisites, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Mr de Villafranca.
- 33a *Embryology*. A study of fertilization, cleavage, gastrulation, and the early development of organ systems in amphibians, birds, and mammals. Prerequisite, 11, 12, or 22. Two lectures and four hours of laboratory. Lec. Th F 2; lab. Th F 3-5. Miss Te Winkel.
- [34a *Entomology*. Introductory study of insects, with field trips. Prerequisite, 11. Th F 11-1 and two hours of independent work.]
- 36a *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade I course in Zoology, Botany, or Biological Science 195. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Miss Polnik.
- 37a *Histology*. A study of animal tissues including their origin, differentiation, functions, changes with environment and with age, and their arrangement in organs. Prerequisite, 11, 12 or 22. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.
- 37b *Microscopic Anatomy of the Endocrine System*. A study of the development, comparative histology, and changes with environment and with age of the glands of internal secretion. Prerequisite. 37a. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.

ZOOLOGY

- 38 *Animal Taxonomy and Ecology.* Field and laboratory work on animal identification and habits. Lectures on early American naturalists, methods of nature study, and wild-life conservation. Prerequisite, a course of Grade I in zoology or botany or Biological Science 195. Two lectures and four hours of laboratory or field work. Lec. M T 2; lab. M T 3-5. Mr Driver.
- [311a *Protozoology.* Free-living and parasitic protozoa and their relationships to other animals including man. Prerequisite, 11, 12, or Biological Science 195. Open to sophomores by permission of the instructor. M T 2-5. Mrs Hobbs.]
- 40b Review Unit. Members of the Department.
- 41, 41a, 41b Special Studies. Problems not dealt with in other courses in the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in zoology. *Two or three hours.*
- 42b *Advanced Physiology.* Properties and functions of products synthesized by living organisms, including enzymes, hormones, vitamins, and other specific substances. Prerequisites, 32a and b and Chemistry 31. Two lectures and four hours of laboratory. Lec. M T 12; lab. M 2-6. Mr de Villafranca.
- 43a *Development of Zoological Concepts.* Study of man's continuous effort to analyze and reduce to system the knowledge of living organisms and to interpret the phenomenon of life, with special attention to the development of the concept of species and theories of evolution. Open, by permission of the instructor, to students not majoring in zoology. Lec. M T W 11. Mr Driver.
- 44b *Experimental Embryology.* A study of theories of fertilization, development, differentiation, and regeneration and their experimental basis. Prerequisite, 33a. Two hours seminar, two hours of scheduled laboratory, and two hours of independent work. Lec. F 2-4; lab. Th 2-4. Miss Te Winkel.
- 45b *Vertebrate Paleozoology.* A study of fossils to show the development of vertebrate life in the past, including consideration of changes in morphological level of development, composition of faunae. and environmental conditions. Three field trips to be arranged. Lec. M T 11; lab. W 11-1. Miss Dawson.

Research Courses

In these courses the work is individual and involves, in addition to the laboratory work upon which it is based, extensive reading and conferences with the instructor at stated intervals. A reading knowledge of French and German is desirable. *Two hours or more each semester.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

ZOOLOGY

51, 51a, 51b Advanced Studies. *One hour or more.*

52a, 52b *Embryology*. Prerequisite, 33a. Miss Te Winkel.

53, 53a, 53b *Anatomy* (prerequisite, 22) or *Ecology* (prerequisite, 38). Mr Driver, Miss Horner.

54 *Recent Advances in Zoology* (seminar). Reading and individual reports. *One hour each semester.*

[56, 56a, 56b *Entomology*. Prerequisite, 34a.]

57a *Muscle Physiology*. A seminar in the physiology, cytology, and biochemistry of muscle. Mr de Villafranca.

57b *Invertebrate Physiology*. Prerequisite, 23a, or by permission of the instructor. Mrs. Laprade.

58a, 58b *Histology and Cytology* (prerequisite, 37a); [58 *Tissue Culture* (prerequisites, 37a and b)]. Miss Carpenter.

[59 *Genetics*. Prerequisite, 36b.]

[510, 510a, 510b *Protozoology*. Prerequisite, 311b. Mrs Hobbs.]

Adviser of graduate study: Miss Te Winkel.

THE MAJOR

Advisers: Mr Driver, Miss Te Winkel, Miss Carpenter, Mrs Hobbs, Miss Horner, Mr de Villafranca.

Based on six hours of Zoology or Biological Science 195. If based on a course other than 11, 11b or 23a must be taken later.

Essential Courses: 22, 40b, and fifteen semester hours in zoology above Grade II.

Optional Courses: other courses in zoology; related courses by permission of the adviser.

HONORS

Director: Miss Horner.

Prerequisites: 11, 11b, or 23b and 22; Chemistry 11 or its equivalent. Normally these courses should be taken before junior year.

Program: to be arranged with the director and to include fifteen hours in Zoology above Grade II plus three hours throughout the senior year on an individual problem, paper, and review.

Examinations: two will cover the general field, the third may be of a specialized character.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser to the major: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense.

Based on History 11 (or another college course in European History approved by the adviser) and History and Social Science 293 or English 212.

Essential Courses:

Six hours chosen from History 319a, 319b, 320b, 321a, 321b, 322a, 322b, 323a, 327b, 414b, 415a, 415b, or, with the permission of the adviser, other relevant courses in history.

Twelve hours from English 321a, 321b, 47b, Art 313a, 313b, Government 31b, 327a, Religion 32b, Education 36b, Philosophy 310a, Theatre 31b, or, with the approval of the adviser, relevant courses in government, economics, sociology, art or English.

Six hours:

American Studies 31a. Contributions of particular fields to the study of American civilization as a whole. For juniors majoring in American Studies. Mr Aaron, *director*.

American Studies 40b. *Integrating Course*. Mr Lampard.

Eighteen hours must be taken in one department. Prerequisites for the major may not be counted in this total, but courses not listed among the "Essential Courses" may be included.

It is recommended that students also elect courses dealing with European civilization.

HONORS

Director: Mr Aaron

Honors students in American Studies must register for 31a and 40b. Their programs must include at least one unit or seminar in their junior and their senior years, the writing of a long paper, and comprehensive examinations.

GENERAL LITERATURE

(This major is open to the classes of 1960 and 1961 but will not be offered thereafter.)

Adviser to the major: Mr Connelly.

Advisory Committee: Mr Arvin, Mr Graham, Mr Guilloton.

INTERDEPARTMENTAL MAJORS

This major allows the student to concentrate in the literature of two languages: English and one foreign language, or two foreign languages. Students who plan to elect this major and have entered with fewer than three units of Latin or Greek or a combination of the two will be required to take Latin 12b, Greek 11, 12a, General Literature 291, or six hours of the classics in translation. Whenever possible, they should begin to plan the major in the spring of freshman year, and they will not be allowed to enter it later than the fall of junior year.

Based on two of the following: General Literature 291, Greek 12a and 12b or Latin 14a and 14b, English 21, French 25 or 26, German 26, Italian 26, Spanish 25, Russian 21. (When General Literature 291 is used as a basis, students who offer English as one of the two literatures are urged to take English 21 in addition to the major in the junior year.)

Essential Courses: twelve semester hours in literature courses in each of the two departments of concentration (eighteen of these twenty-four hours must be above Grade II): six semester hours of a third literature either in the original or in translation; General Literature 40b (review unit).

The student is expected to attain a knowledge of the development of two modern literatures in each of two comparable periods, or (if one of her choices is Greek or Latin) a knowledge of the influence of a major classical figure or genre on a modern literature.

Optional Courses: supplementary literature courses in other periods and relevant courses in other fields.

HONORS

Director: Mr Connelly.

Students taking honors in General Literature are expected to fulfill the same general requirements as the regular majors and to attain (1) a knowledge of the development of two modern literatures in each of two comparable periods, or (if one of the choices is Greek or Latin) a knowledge of the influence of a major figure or genre on a modern literature, and (2) a special understanding of at least one major figure in each of the principal literatures chosen. Their programs must include the writing of a long paper and general examinations, and ought to include at least one unit or seminar each year.

SCIENCE

The interdepartmental majors in science are designed as preparation for (1) professional schools such as medicine, public health, or nursing; (2) graduate study in those fields which involve a thorough knowledge of more than one science, *e.g.*,

INTERDEPARTMENTAL MAJORS

biochemistry, biophysics, or bacteriology; (3) laboratory work. Because it is advantageous to have basic training in chemistry, physics, zoology, and mathematics, it is urged that the student see the advisers of these majors as early as possible in freshman year.

Students planning to enter schools of nursing may consult Mrs Hobbs for information concerning entrance requirements for these schools.

BACTERIOLOGY

The Interdepartmental Major may be found in the offerings of the Department of Bacteriology and Public Health.

BIOCHEMISTRY

Adviser to the major: Mr de Villafranca, Mr Sherk.

Essential Courses: Bacteriology 22; Chemistry 11 or 12, 21a and b, 31, and three additional hours of chemistry; Zoology 12 or 22, 32a and b; Zoology 42b.

(Zoology 42b will serve as the integrating course in this major.)

Optional Courses: other courses in chemistry, bacteriology, zoology, physics, mathematics, or botany with the approval of the adviser.

HONORS

Directors: Mr de Villafranca, Mr Sherk.

Prerequisites, normally taken before junior year: Chemistry 21a and b; Mathematics 12 or 13; Zoology 12 or 22.

Program:

Requirements: Bacteriology 22; Chemistry 31, and three additional hours of chemistry; Physics 11; Zoology 32a and b; Zoology 42b; three hours throughout senior year on a problem, paper, reading, and review.

Optional Courses: courses in chemistry, physics, bacteriology, zoology, mathematics, or other related fields by permission of the director.

Examinations: one in chemistry, one in physiology, one selected according to the student's program.

PREMEDICAL SCIENCE

Advisers to the major: Mrs Hobbs, Miss Te Winkel.

The courses listed represent the minimum requirement for entrance to most medical schools, but as these differ from one another it is advisable for students to

INTERDEPARTMENTAL MAJORS

decide in the spring of freshman year which school they plan to enter and include any additional courses necessary. Thirty hours in the major are required in the three upper years of which twenty-one must be above Grade II.

40b Directed reading in the history of medicine from the standpoint of concurrent developments in chemistry, physics, and zoology.

Essential Courses: Chemistry 11 or 12, 21a, 31; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; Zoology 22; Premedical Science 40b; a college course or its equivalent in German, French, Russian, or Spanish.

Optional Courses: other courses in chemistry, physics, mathematics, or zoology. Sociology 32a, 32b, or Psychology 36a and b may be substituted with the permission of the adviser.

Students may also prepare for medical schools by majoring in any department, if they include in their schedules the courses suggested above as the minimum requirement. They may consult the adviser of this major about their choice of courses.

HONORS

Director: Mrs Hobbs.

Prerequisites, normally taken before junior year: Chemistry 21a; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; a college course or its equivalent in German, French, Russian, or Spanish.

Program:

Requirements: Chemistry 31; Mathematics 12 or 13; Zoology 22; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, physics, zoology, mathematics, or bacteriology. Sociology 32a, 32b, or Psychology 36a and b may be substituted with the permission of the director.

Examinations: one in chemistry, one in zoology, one selected according to the student's program.

Graduate Study

Smith College offers to graduate women programs leading to the degrees of Master of Arts, Master of Education, Master of Science in Physical Education, Master of Arts in Teaching, and Doctor of Philosophy. For foreign students, programs for a Certificate of Graduate Studies are available. Ordinarily about eighty women students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Students at Smith College who have received a baccalaureate degree from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students— those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students— those college graduates, men or women, who are receiving instruction in the college without reference to the attainment of an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The requirements for the degrees of Master of Arts, Master of Education, and Master of Arts in Teaching may be fulfilled in one year by well-prepared full-time students; for the Master of Science in Physical Education, in two years (in one year by specially qualified students). The degree of Doctor of Philosophy is offered in a limited number of departments and requires at least three years of advanced studies including one year at another institution.

FELLOWSHIPS AND SCHOLARSHIPS

The College offers several fellowships and scholarships which are open to graduates of Smith College and to women graduates of other colleges of good standing. Special scholarships are available for study in education and in physical education. Other fellowships are offered to students from foreign countries.

The science departments and the departments of music and theatre offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

INFORMATION

Full information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin, an application blank for admission, and other information may be obtained from the Secretary to the Committee on Graduate Study.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen and sophomores are allowed only a limited number of nights away from the campus in each semester. At the beginning of the junior year, the student herself assumes the responsibility for upholding the principle of residence. Within this framework, it has been possible for the faculty to grant to all students except freshmen and those whose standing is below diploma grade the responsibility for their own class attendance on all except the opening and closing days of a session. To those students whose homes cannot be reached within thirty-six hours of travel time from Northampton (by the means of transportation actually used) special permission may be given to extend the winter recess not more than a total of 48 hours for travel time privilege, either at the beginning or at the end.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to seventy students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college, except when students are admitted from a waiting list. A student may move from one house to another once during her college course, the order of assignment after the freshman year being determined by lot.

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In most of the houses there is also a

GENERAL INFORMATION

resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Because of high operating costs, every student is asked to contribute up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Daily services are held weekday mornings, except Wednesday and Saturday, in the Helen Hills Hills Chapel, and Sunday chapel services bring outstanding clergymen to the campus. Three voluntary religious organizations, the Christian Association (Protestant), Hillel Foundation (Jewish), and the Newman Club (Roman Catholic), offer programs of worship, study, and service, while cooperative educational and community service projects are undertaken by the Religious Association, of which every student is a member. The Chapel houses a Religious Center, with meeting rooms for these groups, and offices for the chaplain and his assistant. Northampton churches welcome students at their services and activities. Thus the opportunity is provided for students of each faith to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of five resident physicians. The Doctors' Office and the Elizabeth Mason Infirmary provide medical care and facilities for treating normal illness. For unusual or serious illness, the services of specialists in Northampton and Springfield are available. The Health Service also emphasizes preventive medicine by exercising supervision over the health of the dormitory staffs and working closely with the College Dietitian.

The Elizabeth Mason Infirmary is a fully registered hospital with a normal capacity of sixty beds and an emergency capacity of ninety. In addition to administrative personnel, its staff includes a registered laboratory technician, a registered x-ray technician, a dietary supervisor, and eleven registered nurses.

The College has arranged to cooperate with a reputable insurance company in offering a voluntary insurance plan which protects the student over a twelve-month period, whether in residence at college or not. Students are strongly urged to take out this insurance, which gives unusual protection, in addition to that which the College offers without charge.

In the interests of individual and community health, every student is expected to comply with the health regulations which are printed in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office serves as a placement bureau for both alumnae and seniors who are seeking permanent positions, and for underclassmen who wish placements for the summer.

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The staff assists students of all four classes in selecting their future occupations and in relating their courses to these occupations. The office provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers who visit the campus.

Letters of recommendation for seniors and alumnae are filed with the Vocational Office and will be sent upon request to prospective employers and scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

SEELYE HALL, given by friends of President Seelye, contains classrooms for over fifteen hundred students, the laboratories of the Department of Geology and Geography, and department offices.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing needed seminar and class rooms.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and students, contains a large reference room, general reading and study rooms, department seminar rooms, a Rare Book Room, and a room for the college archives. The Browsing Room, furnished as a private library, offers opportunity for leisure-hour reading. A wing was built in 1937 to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

The Smith College Library contains 429,306 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings. The open-shelf system permits free access to all books.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made this first art gallery possible, is equipped with studios and exhibition rooms, a library of art in memory of Drayton Hillyer, and a collection of approximately thirty-three thousand photographs, and fifty thousand slides. Graham Hall, a lecture hall seating 265, was added through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art were transferred to it from the Hillyer Gallery. The museum also contains galleries for loan exhibitions, which are arranged under the auspices of the Museum to supplement the permanent collections.

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Named in honor of Mrs Russell Sage, SAGE HALL is the music building, containing classrooms, offices, practice rooms, a library, and a collection of about fifteen thousand records. It also has an auditorium seating 743 and equipped with a Hammond organ and apparatus for motion pictures.

THE STUDENTS' BUILDING, designed in 1903 to be the center of the social life of the students, is now the home of the Smith College Theatre. Classrooms and offices of the Departments of Speech and of Theatre are also located in this building.

PIERCE HALL, until 1924 the music building, was then named in honor of Professor Arthur Henry Pierce and is devoted mainly to the Department of Psychology.

LILLY HALL OF SCIENCE contains the lecture rooms, laboratories, and library of the Department of Physics. It was the gift of Alfred Theodore Lilly.

THE OBSERVATORY was given by President Seelye and Mr A. Lyman Williston in honor of Henrietta Chapin Seelye and Sarah Tappan Williston. The instruments include equatorial telescopes, a Ross camera, and other apparatus for teaching purposes.

STODDARD HALL, the chemistry building, named in honor of Professor John Tappan Stoddard, was built in 1898 and enlarged by an addition in 1918. It contains a lecture room, library, laboratories, classrooms, offices, and modern research equipment.

BURTON HALL, a building of modern construction provided with the best equipment for the study of the biological sciences, was named for President Burton and was opened for use in September, 1914.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains a large floor for basketball, badminton, and tennis backboard, as well as two bowling alleys and four squash courts.

THE SCOTT GYMNASIUM was named in honor of Col. Walter Scott. It contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL is used by the Department of Education and Child Study for the Smith College Day School. In addition to the classrooms there is an assembly hall seating 170. Adjoining is a large playground.

THE ELISABETH MORROW MORGAN NURSERY SCHOOL, acquired through the bequest of Mrs Morgan of the Class of 1925, occupies a site adjoining the Smith College Day School.

The clinical offices of the Health Service are located in GATEWAY HOUSE.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemo-

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rates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of Frank H. Mason whose gift completed the fund raised by the Alumnae Association. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers' Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fireproof Infirmary with a normal capacity of sixty patients which could be increased in emergencies to nearly twice that number.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the Association staff, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, a newly converted recreation building for student use, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-five stops, built in 1956, was presented by Mrs Hills as a memorial to her husband, James Mandly Hills.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built on the new Athletic Field in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment and skates and skis, it contains a lounge, a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-one hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park and Park Annex, Tenney (cooperative, for upper-classmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, Graduate (30 Belmont Avenue).

EXPENSES

TUITION AND RESIDENCE FEE	\$ 2,200.00	
One half payable in advance of the beginning of each semester.		
PRELIMINARY PAYMENTS		
Registration for application for admission	\$ 15.00	
Not refunded or credited.		
Deposit payable on or before June 1 preceding entrance	\$ 50.00	
Not refunded for new students in case of withdrawal before entrance. Refunded after graduation. Also refunded to members of the three upper classes in case of withdrawal if notice in writing is filed with the Registrar prior to July 1 for the first semester, or prior to December 1 for the second semester.		
OTHER FEES AND CHARGES		
Infirmary charge per day	\$ 10.00	
Each student may have Infirmary care for six days each year without charge, but no more than two free days may be used for any one illness. The usual charges will be made for special nursing care and for services of physicians or specialists from outside the College.		
Linen fee (annual)		12.00
Fees for courses in practical music		
Vocal or instrumental, for the college year:		
One hour lesson a week	\$ 150.00	
One half-hour lesson and two class hours	100.00	
One additional half-hour lesson taken for extra credit	75.00	
Courses in ensemble when given individually	50.00	
Use of practice room and a college instrument	15.00	
Use of practice room only, one hour daily	7.50	
Use of organs, one hour daily	35.00	
Fees for classes in riding		
Fall term	Freshmen \$48.00	Sophomores \$ 72.00
Winter term	75.00	75.00
Spring term	39.00	63.00
Materials for courses in technical art		at cost
GRADUATION FEE	\$ 15.00	
ESTIMATED ADDITIONAL EXPENSES		
Books each year, approximately	\$ 100.00	
Subscriptions and dues, student activities	25.00	
Gymnasium outfit for physical education	22.85	
Recreation and incidentals	from \$100 to \$150	
FEE FOR NONCOLLEGIATE STUDENTS for each three-hour course	125.00	
FEE FOR AUDITING, per course	5.00	

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students of marked ability who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to \$1500, ten regional scholarships ranging from \$600 to \$1800, and ten residence scholarships each year. These scholarships are made possible through endowed funds given to the College for scholarship purposes, by an annual appropriation from general income, and by annual scholarship gifts from alumnae clubs and from other organizations.

All scholarships are awarded on the basis of high academic standing, personal qualifications, and financial need. They are given for one year only but may be renewed. Applications from entering students should be sent to the Director of Scholarships and Student Aid by February 1 of the year of entrance.

Scholarships of \$1000 are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for five years directly before the date of their admission to college, provided they are able to satisfy the full requirements of admission; this grant is continued through their college course provided they maintain diploma grade, conform to the regulations of the College, and continue to be residents of Northampton or of Hatfield.

Scholarships of varying amounts are awarded to foreign students. For these special application should be made to the Committee on Foreign Students.

Smith College participates in the Seven College Conference Scholarship Program. A student living in Colorado, Kansas, Missouri, Nebraska, Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas, California, Idaho, Oregon, or Washington may compete for one of these scholarships. For details about this program applicants should write to the Director of Admission before January 31 for the next academic year. The participating colleges are Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley.

These same colleges, with many others, also participate in the College Scholarship Service of the College Entrance Examination Board which acts as a clearing house for scholarship applications, sending to the college concerned the financial information from the parents or guardians. The College itself, however, makes all final decisions on actual scholarship awards, which are announced in May.

The College awards fifteen scholarships in music each year.

Endowment funds given to the College for scholarship aid are listed on pages 165ff.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing:

The Neilson Scholarships. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

SCHOLARSHIPS

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This provides full tuition for a student in the first group.

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

COOPERATIVE HOUSE AND RESIDENCE SCHOLARSHIPS

Tenney House, originally established as the gift of Mrs Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

In memory of Mrs Tenney, ten scholarships have been established known as the Tenney Residence Scholarships. These consist of \$100 each to be applied toward residence in any college house. They are awarded to students of approved character and scholarship in the three upper classes.

SELF-HELP

The College undertakes general supervision of the remunerative work done by undergraduates. Students wishing any kind of employment during the college year should register with the Director of Scholarships and Student Aid. Only a limited amount of work is available, most of which is given to students of the three upper classes.

LOANS

Smith College believes that students seeking financial aid for college should apply for loans as well as for scholarships. The College therefore has loan funds available on generous repayment terms. The Smith Students' Aid Society, Inc., an organization of Smith alumnae, also makes funds available for loans to members of the three upper classes on the same generous repayment plan, and the College likewise participates in the Federal Loan Program under the National Defense Education Act of 1958. All applications for loans should be made to the Director of Scholarships and Student Aid by February 1 preceding the academic year for which financial aid is requested. Later applications will also be considered when necessary.

FELLOWSHIPS

The announcement of fellowships awarded for graduate work including those open to students from foreign countries is in the *Bulletin of Graduate Studies*.

ENDOWED SCHOLARSHIPS, FELLOWSHIPS & PRIZES

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Charles Clinton Abbey	\$ 55,540.74
Herbert Vaughan Abbott	7,121.65
J. J. Albright	6,700.00
Susan Fuller Albright (Buffalo Smith Club)	10,000.00
Louise Partridge Andrews Memorial	2,467.00
Anonymous Scholarship No. 3	5,000.00
Elizabeth Arden	10,000.00
Elizabeth Harper Arnold Memorial	10,000.00
Alma Hoegh Ayers (Indianapolis Smith Club)	18,427.50
Nellie W. Bagg	7,000.00
Franklin Baldwin	1,200.00
Bartol	86,025.58
Birney Clark Batcheller	500.00
Suzan Rose Benedict	10,020.47
Mary Nichols Billings	5,000.00
Mildred Louer Bird	16,000.00
Morris A. Black	2,000.00
Carolyn Peck Boardman Memorial	5 165.00
Clara P. Bodman	4,800.00
Wilmo Owens Bowman	3,639.00
Annie Kimball Brown Memorial	5,000.00
The President Burton Memorial	33,512.03
Jessica White Cabot	18,445.60
Jean Cahoon Memorial	10,000.00
Gibson Lamb Caldwell Memorial	9,400.00
John A. Callahan	7,440.81
James R. Campbell	1,009.97
Canadian	20,402.88
Bessie T. Capen	5,531.25
James Saltonstall Carpenter	17,309.79
Helen Clarissa Gross Chandler	10,000.00
Esther Fanny Clapp Memorial	1,000.00
Elizabeth Marguerite Dixon Clark Memorial	17,000.00
Lavinia R. Clark	20,000.00
Anne Louise Clarke	30,000.00
Mary Reynolds Clarke	30,000.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Class of 1883—in honor of Elizabeth Lawrence Clarke	\$ 14,816.00
Class of 1887	10,000.00
Class of 1897	32,978.82
Class of 1898	8,122.50
Class of 1901	5,558.50
Class of 1904	25,000.00
Class of 1905	35,878.08
Class of 1906	26,000.00
Class of 1916	6,525.00
Class of 1919	30,955.17
Class of 1926	650.77
Class of 1930	23,832.25
Class of 1949	10,266.94
Class of 1950	10,112.78
Class of 1951	8,020.27
Class of 1952	7,903.04
Class of 1953	8,173.45
Class of 1954	4,775.10
Class of 1955	9,445.80
Class of 1956	12,926.63
Sara Hunt Clough Memorial	1,000.00
Harriet Redfield Cobb	8,753.62
Mildred E. Ford Cobb Memorial	23,350.00
Katharine Baylis Cochran	8,000.00
Hazel Winans Coe	25,861.92
Margaret Elmer Coe	20,000.00
Colorado	21,566.50
E. C. Converse	50,000.00
Alison Loomis Cook	16,969.47
Mary M. Cook	5,000.00
Augusta E. Corbin	9,500.00
Helen Hodgman Craig Memorial	20,000.00
Edith Angell Cranshaw	3,358.50
Katharine Sands Crispell Memorial	11,243.75
Charlotte Graves Cross	5,390.00
Bernice Barber Dalrymple	6,891.22
Danforth	22,500.00
Lt. Robert Lamont Darrah Memorial	1,225.00
Virginia Winslow Davis	10,000.00
Paul Dudley Dean Memorial	4,080.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Vivian Bubb Decker	\$ 1,000.00
Mary D. Dey	5,000.00
Anna N. Dice and John William Dice Memorial	2,000.00
Elizabeth Lind Dice	1,000.00
Elizabeth Lind Dice and John Dice Memorial	3,000.00
Eleanor Duckett and Mary Ellen Chase	10,000.00
Mary Carter Duncan	10,000.00
Elizabeth Edwards Memorial	5,000.00
Constance Elaine Memorial	5,000.00
Matilda Allen Farley	2,000.00
Elizabeth S. Fisk Memorial	2,000.00
Ida E. Fisk Memorial	2,000.00
Marietta Miles Fisk Memorial	2,000.00
Florida	2,380.00
Elizabeth Fobes	1,000.00
Clara and Joseph F. Ford	5,500.00
Edith Forrest Memorial	28,623.54
Mary P. Fowler	15,000.00
Ruth Hawthorne French	12,000.00
Emily Frink	2,000.00
Fannie Furman Memorial (Rochester Smith College Club)	10,000.00
Eleanor N. Gaffield	10,000.00
Gamble	2,000.00
Helen Hadley Gander	10,300.00
Gannett Memorial	2,000.00
Carrie L. W. and Marion Gary	12,437.23
Anne D. Geller	104,012.72
Gertrude Gladwin Memorial	10,476.00
Howard Rogers Clapp and Howard Rogers Gleason Memorial	25,165.00
Jessie S. R. Goldthwait	10,000.00
Luman Webster Goodenough	9,987.50
Elizabeth Firestone Graham	21,231.25
Mary Louise Brown Graham	10,000.00
Elizabeth Bancker Gribbel Memorial	12,000.00
Ellen Clarissa Gross	10,000.00
Charlotte C. Gulliver Memorial	10,040.00
Julia Henrietta and Mary Gulliver	9,528.48
William Haas Memorial	9,971.50
Philip Hale	10,000.00
Elizabeth Deering Hanscom	17,153.69

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Mary S. Harkness	\$ 10,000.00
Marion and S. Ralph Harlow	10,151.17
Emily Hazen	28,297.21
Sarah Henderson and James O. Hazen	20,100.00
Helen H. Hills	21,250.00
Anna Laura Holbrook	14,508.56
Esther R. Holmes	6,000.00
Ellen Holt	10,005.00
Lilian Clapp Holt	10,000.00
Charlotte Manning Hoover	5,435.42
Lucia Maria Houpt	2,500.00
Lillia Babbitt Hyde Foundation	30,000.00
William Bertram Imlach	8,650.82
Inman	11,797.44
Florence Jackson Memorial	9,553.19
Ruth Eckhart Jarvis	10,500.00
Emily Harris Jones	10,000.00
Elizabeth Jordan and Martha Hill Cutler	5,000.00
Werner Josten	25,000.00
Florence Hopwood Judd	6,267.50
Caroline E. Kilbon	200.00
Francis M. Knight	11,632.50
Ruth de Young Kohler	125,010.00
Ann Sherman Kouwenhoven Memorial	7,631.00
Jessie Stevenson Kovalenko	24,300.00
Kresge Foundation	40,000.00
Mary Allison Lang Memorial	861.69
Mary Lanning Memorial	5,000.00
Lathrop Memorial	1,350.00
Latin American—Class of 1890	7,500.00
Caroline Saunders Lindeke	7,900.00
Agnes Linton	1,000.00
Alice and Florence Lord	5,023.64
Esther Lowenthal	9,760.00
Blanche Halladay Lyle	20,000.00
Lyon Foundation	25,000.00
Jeannette Laws McCabe	44,134.37
Heleñ Roberts McCormick	10,800.00
Ethelyn McKinney	32,500.00
Mr and Mrs John Loudon McMillan	50,000.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Barbara McRoy	\$ 88,300.79
Carolyn Weston McWilliams	1,000.00
Beatrice Austin Manning and John Henderson Manning	15,000.00
Maplewood Institute Memorial	5,000.00
Helen Ayer Marden	1,000.00
Dorothy R. Mendenhall	1,000.00
Mary E. Mensel	31,305.50
Mary Lightfoot Milbank Memorial	4,383.01
Margaret Mitchell	15,841.31
Jean Morron	25,000.00
Dwight W. Morrow	100,000.00
Nellie Eddy Mudge	2,000.00
Miriam Myers Memorial	9,500.00
Ida A. Nathanson	1,500.00
Ruth Perry Neff (Wisconsin Smith College Club)	5,740.17
William A. Neilson	15,000.00
Anna Belle O'Brien	22,500.00
Lawrence Ottinger	5,000.00
Blanche M. Parkin	26,640.41
Alice Edgerton Parsons	5,000.00
Katharine Parsons	10,218.75
Martha Cobb Peabody	10,000.00
Barbara Whitney Peck	10,000.00
Harriet and Gurdon Pellett Memorial	44,628.81
Charlotte Foggan Phelps	10,000.00
Elizabeth Bartlett Phillips	5,000.00
Isabel Pickering	37,810.11
Clara B. Platner	10,000.00
Ellen Plimpton	7,002.50
Jessie Wells Post	50,000.00
Olive Higgins Prouty	44,566.25
Edith Nichols Putney Memorial	1,771.49
Orlana Ranney	11,933.88
Louise Cornell Rausch	12,303.80
Anne E. Rice	5,000.00
Dagmar Megie Ross Memorial	25,000.00
Christina Rounds Memorial	6,000.00
Samuel Runner	5,000.00
Lucy J. Russell	1,000.00
Margaret Roberts Sanborn	5,310.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
SCADS	\$ 20,000.00
Benjamin Scharps and David Scharps	2,500.00
Alice Goodwin Schirmer	5,000.00
Laura Shedd Schweppe Memorial	20,000.00
Edith Scott	8,000.00
Sadie D. Scott	8,000.00
Emma E. Scranton	1,000.00
Seaver	23,500.00
St. Agatha—Emma Sebring	14,000.00
Agnes Jeffrey Shedd	10,251.24
Edith Dudley Sheldon	1,500.00
Elsie Damon Simonds	67,575.00
Andrew C. Slater	4,000.00
Anna Margaret Sloan and Mary Sloan	16,807.78
Eva Virginia Smith (1931)	1,000.00
Frances Grace Smith	63,449.29
Louise Smith	51,585.51
Smith College Club of Akron	10,625.00
Smith College Club of Baltimore	1,000.00
Smith College Club of Chicago No. 1	22,500.00
Smith College Club of Chicago No. 2	16,010.03
Smith College Club of Cincinnati	26,323.80
Smith College Club of Cleveland	23,859.20
Smith College Club of Detroit	24,468.14
Smith College Club of Fitchburg	5,000.00
Smith College Club of Milwaukee	12,649.50
Smith College Club of New Haven	18,013.24
Smith College Club of New York	15,000.00
Smith College Club of the Oranges	15,510.58
Smith College Club of Oregon	3,976.01
Smith College Club of Philadelphia	18,996.42
Smith College Club of Pittsburgh	6,719.54
Smith College Club of Rhode Island	12,000.00
Smith College Club of Rochester	17,700.00
Smith College Club of Seattle	10,901.28
Smith College Club of Washington	6,794.21
Smith College Club of Winchester	400.00
Annis Kendall Stearns (1910)	9,913.97
Caroline Lounsbury Steele Memorial	2,913.00
Strack	10,000.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Nancy Strassburger Memorial	\$ 19,100.70
Anne Straw, Class of 1948	20,000.00
Otto Sussman	174,920.89
Emily Hitchcock Terry Memorial	3,000.00
Charles M. Thayer Memorial	3,000.00
Helen Rand Thayer	10,000.00
Julia Ball Thayer	6,000.00
Eva I. Titman	5,000.00
Roslyn Titman	5,000.00
Mabel Tower	20,170.96
Helen Ramsey Turtle Memorial	1,165.00
Sarah Sanderson Vanderbilt Memorial	50,000.00
Lulu Morris Wadley Memorial	5,000.00
Rodney Wallace	10,000.00
Sophia Billings Wallace	5,000.00
Sophia Ingalls Wallace	5,000.00
Jane O'Neil Wallis Memorial	10,765.00
Mary Rankin Wardner Memorial	4,120.00
Mary Byrd Wells Memorial	11,233.75
Westmoreland County (Pa.)	9,689.00
Julia Carolyn Weston	10,000.00
Margaret White Memorial	5,000.00
White Lodge	2,622.00
Catharine Lasell Whitin	10,100.00
Hiram Whittington	10,000.00
Harriet J. Willard Memorial	5,000.00
Mary B. Williams	8,185.90
Clara R. Williamsen Memorial	20,000.00
Mary E. Wilson (Berkeley and San Francisco Smith College Clubs)	9,523.00
Wood	10,000.00
Ella Eames Wood	7,478.01
Robert M. Woods Memorial	5,000.00
Josephine Clews Wrightson Memorial	21,500.00
Rudolph Zinsser Memorial	22,036.25
Miscellaneous	20,124.25

FELLOWSHIP FUNDS

Alumnae Association	25,525.00
Harriet Boyd Hawes	13,000.00
Agnes Hunt Memorial	1,000.00

PRIZE FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Frances Grace Smith	\$ 20,000.00
Jean Fine Spahr	32,373.71
Sarah Watkins Wilder and Sarah Wheaton Whipple	10,841.84
Fanny Bullock Workman	30,000.00
TOTAL	\$4,166,891.55

PRIZE FUNDS

The *Alpha Awards* are made annually by a committee of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually from 1955 through 1959 by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually for proficiency in German language and literature.

The *Elizabeth Babcock Poetry Prize* fund of \$2500, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates except those who have already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$300, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1085.47, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Samuel Bowles Prize* fund of \$2002.69, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$2000, the income of which is awarded for excellence in Latin, to be tested by an examination upon an assigned portion of Latin literature: in 1960, Ovid, *Metamorphoses*, Book VIII; in 1961, Seneca, *Epistulae Morales*, 40, 47, 51, 53, 77, 82, 84, 88, 90.

The *Margaret Wemple Brigham Prize* fund of \$850, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$2000, given by Miss Mabel Brown 1887 in

PRIZE FUNDS

memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1000. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$5000, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

The *James Gardner Buttrick* fund of \$1000, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund given by the Very Reverend and Mrs. Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverno Prize* fund of \$2000, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$2500, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1000, the income to be awarded to the undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Daves Prize* fund of \$1898.57, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$2555.34, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination on an assigned portion of Greek literature: in 1960, Homeric Hymns II (*To Demeter*), and V (*To Aphrodite*); in 1961, Plato, *Charmides*.

The *Hazel L. Edgerly Prize* fund of \$500, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject.

The *Settie Lehman Fatman Prize* fund of \$5000, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the Senior Class or graduate students taking Music 42 or Special Studies in Composition or by a student in Music 33.

The *Harriet R. Foote Prize* fund of \$500, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

The *Henry Lewis Foote Memorial Prize* fund of \$500, given by his wife, Harriet Risley

PRIZE FUNDS

Foote 1886, the income to be awarded for excellence in classwork in Biblical courses.

The *Clara French Prize* fund of \$5000, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

The *Helen Kate Furness Prize* fund of \$1000, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words nor longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$600, given by her sister Mrs Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$5000, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1000, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a student in English 11, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$500, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

The *John S. Mekeel Memorial Prize* fund of \$1,000, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$500, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

The *Mrs Montagu Prize* fund of \$400, founded by Mrs Abba Louisa Goold Woolson in honor of Mrs Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

The *Victoria Louise Schrager Prize* fund of \$2000, given in her memory by her family and Miss Marjorie Hope Nicolson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

The *Andrew C. Slater Prize* fund of \$1000, the income of which is awarded to an undergraduate for excellence in debate.

The *Frank A. Waterman Prize* fund of \$335, the income to be awarded to a senior who has done excellent work in physics.

1959 AWARDS

PRIZES

- Alpha Awards*: art, Blair Tillisch, 1959; creative writing, Cecile Lamalle, 1959; music, Louise Lee, 1959; theatre, Cynthia Chisholm, 1959; dance, Joan Tucker, 1959
- Academy of American Poets Poetry Prize*: Anne Norris, 1959
- American Association of University Women Award*: Louise Ritchey, 1959
- Elizabeth Babcock Poetry Prize*: Anne Norris, 1959; Jean Weir, 1959
- Harriet Dey Barnum Memorial Prize*: Elizabeth Frederick, 1959
- Suzan Rose Benedict Prize*: Esther Polinsky, 1962
- Samuel Bowles Prize*: Myra Hymovich, 1959; Nancy Edelman, 1959
- John Everett Brady Prize*: Viola Guinness, 1959
- Margaret Wemple Brigham Prize*: Gertrude Hunter, 1959
- Vera Lee Brown Prize*: Sue Duncan, 1959
- Yvonne Sarah Bernhardt Buerger Prize*: Lynn Ackerman, 1959; Judith Ravel, 1960
- James Gardner Buttrick Prize*: Rosalind Robinson, 1959; Deborah Smith, 1959
- Carlile Prize*: Sue Nickerson, 1959
- Julia Harwood Caverno Prize*: Jean Weir, 1959
- Sidney S. Cohen Prize*: Arlene Schonberger, 1960; Carol Van Brunt, 1960
- Alison Loomis Cook Scholarship*: Joan Cannon, 1960
- Ethel Olin Corbin Prize*: Iris Tillman, 1961; Jane Yolen, 1960
- Daves Prize*: Ronny Schulman, 1959
- Alice Hubbard Derby Prize*: Jean Weir, 1959; Livia Goldeen, 1959
- Descartes Medal*: Joan Gerdau, 1959
- Settie Lehman Fatman Prize*: Kevyn Ungemah, 1960; Harriet Kerney, 1960
- Harriet R. Foote Prize*: Celissa Norcross, 1959
- Henry Lewis Foote Memorial Prize*: Susan Kulp, 1961
- Clara French Prize*: Louise Ritchey, 1959
- Sarah H. Hamilton Memorial Prize*: Barbara Bulkostein, 1959; Elizabeth Frederick, 1959
- Arthur Ellis Hamm Scholarship Prize*: Margaret Paine, 1962
- Frances A. Hause Memorial Prize*: Shirley Liu, 1959; Anne Norris, 1959
- Florence Corliss Lamont Medal*: Carolyn Dineen, 1959
- Awards from the Mahony Fund*: Louise Ritchey, 1959; Charlotte Foote, 1962; Joan Lewis, 1962
- Emogene Mahony Memorial Prize*: Nancy Gordon, 1960
- Samuel Michelman Memorial Prize*: Ann Connor, 1959
- Guthrie McClintic-Katherine Cornell Prize*: Barbara Bulkostein, 1959
- Victoria Louise Schrager Prize*: Shirley Liu, 1959
- Mrs Montagu Prize*: Cecile Lamalle, 1959
- Prize for Excellence in Editorial Work*: Jane Yolen, 1960
- Prize for Excellence in Newspaper Reporting*: Sherry Fisher, 1959

1959 AWARDS

FIRST GROUP SCHOLARS*

Class of 1960

Karen Alexander
Patricia Andrews
Deborah Bennett
Rona Copen
Rhea Cottler
Sally Davies
Kathleen Dunn
Susan Dworski
Marjorie Fine
Judith Fusek
Cornelia Grant
Susan Gray
Virginia Griffith
Anna Held

Orysia Karapinka
Linda Kelsey
Helen Lautenberg
Sandra Lincoln
Mary Jane Long
Judith MacDonald
Anne Rutenber
Arlene Schonberger
Elsabeth Slaughter
Caroline Stanwood
Frances Stokes
Diane Thompson
Carol Van Brunt

Class of 1961

Susan Allen
Elizabeth Barker
Nancy Barks
Elizabeth Bayne
Denise Belisle
Jane Gurko
Selena Haines
Elizabeth Hale
Paula Johnson
Sylvie Koval
Margery Kremers

Linda Lee
Rhoda Manheim
Louise Merrill
Christine Naumann
Juliet Perry
Mary Jane Roche
Joyce Sills
Joyce Skaggs
Sabra Sullivan
Karen Trott
Ruth Zwick

Class of 1962

Janet Adelman
Juliet Frey
Elizabeth Greenstone
Barbara Hill
Sylvia Kerr

Margaret Paine
Jo Alice Royall
Naomi Satlow
Susan Stewart
Hilah Thomas

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

DEGREES

A. B.

Lynn S. Ackerman
 Anne Hardwick Addington
 Paula Lindsay Aiken
 Sandra Jean Akin
 Marion Ruth Allen
 Anita Tarrant Anderson
 Martha Lanier Anderson
 Martha Sue Anderson
 Mary Caroline Anderson
 Judith Gail Antevil
 Loraine Chadeayne Appleton (Roush)
 Susan Jane Aronowitz
 Sally Asher
 Elisabeth Reeve Atwater

Ann Badger
 Sarah Elizabeth Bard
 Athalia Barker
 Jane Adele Baumgardner
 Deborah Beard
 Gail Lewis Beckwith (Mazur)
 Emily Trafford Berges
 Miriam Berke (Bjerre)
 Devin Gilchrist Berry
 Elizabeth Davis Berry
 Theodora Brentano Bersbach
 Mary Joan Bertrand
 Ruth Mary Bibby
 Penelope Ann Billings
 Pamela Arnold Bisbee (Anderson)
 Jacquelyn Mack Blauner
 Sheila Bodine
 Lynn Trudy Boerner
 Nora Bradley
 Merry Jan Brashares

Dorcas Phyllis Brown
 Susan Alene Brown
 Virginia Elizabeth Brown
 Joan Dixon Buhse
 *Barbara Ann Bulkostein
 Frances Patten Bull
 Anne Wilson Bullard
 Amy Vaughn Bunting
 †*Carolyn Jane Burdick
 Sandra Dutton Burke
 Charlotte Burkhart
 Delano Burton

 Sarah Talcott Cadbury
 Jean Argyle Campbell
 Jean Gage Campbell
 *Eleanor Lillian Caron (Pepin)
 Margaret Nelson Carr
 Constance Carter
 Joan Case
 Penelope Jane Case
 Elizabeth Ann Cernak
 Mary Ellen Chadeayne
 Smedley Rosina Chapman
 Ruth Leslie Charon
 Julianna Huei Shek Chen
 Elizabeth Ann Taylor Cherney
 Katherine Anne Chilcote
 Cynthia Wisner Chisholm
 Mary Chrisman
 Louise Warren Christian
 Elizabeth Anne Church
 Mary Cecile Clarke (Sullivan)
 Mary Augusta Clay
 Susan Welsh Cleary

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1959 AWARDS

Elizabeth Sarg Cnobloch
 Valerie Ann Cochrane
 Nancy Grossman Cohen
 Carolyn Ruth Coleman
 Ann Francis Connor
 Nancy Cook
 Carol Lillian Crane
 Joan Crile
 Penelope Critikos
 Sally Brown Curtiss

Josephine Alice Dail
 Nancy Kathryn Daley
 Joan Michele Damato
 Helen Eva Damiano
 Diana Dane
 Paula Deitz
 Sylvia Clara Juliana Beatrix de Kanter
 Emily Lynn Dellenberger
 Jane Elizabeth Deo
 Judith Anne Dewey
 Carol Virginia Diamond
 †Barbara Helen Doherty
 Joyce Vaughan Domling (Dawkins)
 Nancy Ellen Donovan
 Judith Fleckser Dorries
 Susan Barbara Druck
 Sue Duncan
 Julie Ross Dunn
 Carol Louise Dunton
 Jean Eaton Dwinell

Marcia Andrea Early
 Katherine Engel Eckfeldt
 Mary Wood Edgar
 Ann Elizabeth Edwards
 Gale Peck Edwards
 Harriet Elizabeth Egan
 Susan Mary Ehlert
 Anne Catherine Eldredge
 Elizabeth Shelby Elliott

Mary Louise Emrich
 Audrey Epstein
 Mary Aletha Erck
 Virginia Florence Euwer
 Eleanor Whelan Ewart
 Joanna Freeman Ewing

Judith Ann Ferries
 Helene Marie Fesenmaier
 Sarah Lea Fidler
 Harriet Field
 Eleanor Ruth Caroline Foa (Dienstag)
 Pamela Jane Foltz (Furrer)
 Susan Ford
 Carolyn Reed Foster
 Theodora Linton Foster
 Judith-Ann Fowell
 Frances M. Fredman
 Vida Joyce Freedman
 *Sylvia Elizabeth Frey
 Karin Friedenheit
 Claudia Elizabeth Frost

Katherine Gabel
 Gail Mary Gartin
 Marilyn Andrews Gay
 *Joan Ruperti Gerdau
 Jacqueline Lee Gershuny
 Arlene Louise Gilbert
 Rhona Anne Gittlin (Bross)
 Ellen Gleitsman
 Myra Edith Gold
 *Barbara Michele Goodman
 Jenifer Fraser Gordon
 Wilma Pauline Gottlieb
 Joanna Graf
 Ann Douglas Graham
 Louise Breckinridge Graham
 Cynthia Grebe
 Diana Sims Greeff
 Gudrun Helena Kristina Grettve

1959 AWARDS

Elaine Grodowitz
 Laura Muriel Grumpelt
 Elizabeth Thomas Gwin

Betty Cole Haenschen
 Joanne Halperin
 Suzanne Janet Hammond
 †Kathleen Adelia Hanley
 Carol Grove Hanschka
 Susanne Katharine Haran
 Helen Buell Hart
 Dianne Hathaway
 Helen Hamilton Hayes
 Joy Elizabeth Heaton
 Margaret Patricia Henderson
 Margaret Patterson High
 Barbara Janice Hill
 Geraldine Hill (Jenkins)
 Jane Woodward Hill
 Temma Lora Himelstein (Schaller)
 Margaret Souder Hockman
 Joan Holloway
 Nancy Helene Holmes
 Sheila Ann Holst
 Evelyn Stoddard Houghton
 Alice Christine Hovenden
 Judith Van Nest Hover
 Elisabeth Stone Howe
 Sally Jo Ann Howell
 Janet Grace Huber
 Patricia Howard Hume
 Elene Marion Hurst
 Anita Corning Iglehart
 Elizabeth Ann Jarecki
 Marian Johnson
 Julie Mandell Jordan

Rheta Wray Kane
 Ellen Willa Kaplan
 Donna Lee Kargman

Elizabeth Sandra Katte
 Eleanor Maxine Kaufman
 Connie Kaye Keller
 Mary Louise Kenower
 Frances Alison Kent
 Jerill Reed Kiefer
 Anne Gardiner King
 Judith Marian King
 Barbara Woodward Kinney
 Kathe Carol Klatzko
 Cynthia Atkinson Knox
 Mary-Alice Koplik

Rosemary Louise Lamb
 Carol Woerner Lavenstein
 Louisa Quintard Lawrence
 Elizabeth Wanda Rau Lazarus
 Kathleen Bowring Lee
 Louise Kelsey Lee
 Mary Josephine Lee
 Zuriel Elizabeth Lelande
 Linda Mervyn LeRoy
 Gay Lewis
 Ellen Lewittes
 Judith Mae Lieberman
 Joan Thelma Lifton
 Phyllis Lifton
 Ellen Scranton Linen (Mobley)
 Barbara Ann Littlefield
 Joanna Leigh Lloyd
 Diana Elizabeth Long
 Jane Whitney Lothrop
 Ann Chapin Lozier
 Mary Virginia Lucas
 Michele Stacey Lucas
 Linda Ann Luria
 Laura Lyman
 Kathleen Ann Lynch

Beatrix Ashley McCandless
 Joan Louise McDowell

1959 AWARDS

Marilyn Lee McIntire
 Lavinia Rundle McLean
 Tanya Maloff
 Patricia Ann Manley
 Anne Marks
 Alice Van Woert Marsh
 Betsey Jane Mast
 Emily Menlo
 Margaret Gay Mercer
 Ann Forsythe Merritt
 Lillian Hunter Meyer
 Dale Dunlap Miller
 Gertrude Dorothy Miller
 Stanlee Ann Miller
 Mary Sophia Minard
 Judith Ann Mitchell
 Elizabeth Wentworth Mixer
 Claudine Montgomery
 Margaret Geddes Morgan
 Florence Emerson Moses
 Diana Murfitt
 Louisa Goddard Murray
 Davida Nechemias
 †Anne Rulon Nichols
 †Cellissa Barbara Norcross
 Emily Frances Norcross
 Nancy Ann Norton
 Amanda Potter Nyce

Mary Charlotte Ochsner
 Louanna Rhodes Owens
 Daphne E. Padis
 Carol Virginia Park
 Kathleen Priscilla Parker
 Marien Joy Parmater (Hill)
 Carol Ann Parodneck
 Anne Seeley Parsons
 Margaret Marler Parsons
 Sarah Penelope Paull
 Janet Ford Payne
 Elaine Pendleton

Elizabeth Ellen Perkins
 Josephine Hastings Perkins
 Harriet Eve Perlysky
 Margaret Marshall Phelps
 Joan Sydney Pokross
 Eleanor Roth Price
 Jane Everett Quayle
 Mary Elizabeth Quayle
 Mary Jane Raiche
 Marsha Rankin
 Jane Blackistone Rawlings
 Adelaide Sherwood Ray
 Anne Catherine Reed (Fenn)
 Ann Huntington Richards
 Mary Frances Ring
 Nona Blain Ringler
 Alice Judith Robbins
 Anne Wheelock Robbins
 Hanna Faga Robfogel
 Lee Hamlen Robinson
 Rosalind Robinson
 Roberta Ann Rochford
 Carol Rogers
 Sandra Lee Rosenbaum (Katz)
 Rosalie Ann Rothman
 Lavinia Russell
 Suzanne Ruttenberg

Jane Bolton St. Amant
 Judith Rachel Sallet
 Susan Norma Samuel
 Jean Gurney Sangree
 Carolyn Sarty
 Carol Ann Schellenberg
 Linda Grace Schwartz
 Margaret Ann Schwartz
 Stephanie Schwarz
 Mary Louisa Scott
 Alison Scoville
 Barbara Jane Seaver

1959 AWARDS

Helene Shirley Seidner
 Elsa Joyce Sell
 Barbara Anne Sheldon
 †Marguerite Kreckler Shepard
 Elizabeth-Ann Siemon
 Raye Ann Simon
 Janet Elizabeth Sliney
 Carolyn Colby Smith
 Carroll Smith
 Di Ann Smith
 Esta Myra Smith
 Patricia Ann Smith
 Helen Stevenson Snyder
 Margaret Soley
 Anne Marsh Spencer
 Hester Eleanore Stalker
 Ivy Elizabeth Starr
 Sara Mather Stedman
 Devra Ada Stein
 Shirley Anne Stein
 Suzanne Ivy Stein
 Susan Frances Steingass
 Edith Lincoln Stetson
 Joan Edythe Stockdale
 Barbara Jean Stokes
 Barbara Ann Stonberg
 Polly Margaret Stump
 Abbie Lathrop Sunde
 Sarah Gertrude Swaim

 Elizabeth Brewster Taylor
 Joan Annette Taylor
 Susanna Cutler Tennant
 Barbara Joan Thomas
 Susan Patricia Thomas
 Lynn Barrett Thurston
 Susan Valerie Tishman
 Barbara Jean Topor
 Joan Helen Tucker
 Barbara Sue Tumarkin
 Rosalind O'Donnell Tupper

Caroline Marr Turtle
 Elizabeth Ann Tuttle

 Margretta Van Evera
 Anne Voorhees Van Zandt
 Paula Jean Vesely
 Janet Louise Volz

 Julia Frances Warner
 †Lana Thorne Warner
 Mary Dianthe Warren
 Elisabeth Alexander Waterworth
 Alice Daggett Watson
 Diana Winifred Webster
 Lucretia Jarvis Weed
 Nancy Gould Weeks
 Joanne Weigel
 Ann Leslie Weinbaum
 Barbara Anne Welch
 Anne Catherine Welham
 Ann Wellmeier
 Frances Anne Werner
 Elinor Lanman White
 Carolyn Whyte
 Alice Mitchell Wieland
 Marcia Stanbery Willcox
 Zoé Willet
 Carolyn Randolph Williams
 Karen Williams
 *Sally Romaine Williams
 Wendy Barrett Williams
 Ann Elizabeth Willis
 Margaret Esther Wirt
 Judith Louise Wolfe
 Lois Marion Wood
 Margaret Armour Woodhead
 Mary-Ann Woody
 Virginia Worthington
 Pamela Jane Wren

 Roberta Lee Yenkin
 Mary-Ann Yudicky

1959 AWARDS

Class of 1958

Anne Patricia Hummel
Anne Ferris Rittershofer (Neumann)

HONORS

Cum laude

Theodora Bobrinskoy (History)
Jaqueline Marshall Braxton (English)
Lois Elizabeth Burrill (Government)
Sally Anne Cochran (Government)
†Anne Gilbert Danielson (Psychology)
Claire Davidson (History)
Mary Ellen Dein (Government)
Wilhelmina McCall Dommerich (Art)
Elizabeth Downes Elkins (English)
*Monica Feuermann (Music)
Sherry Pratt Fisher (History)
Sarah Gill (History)
Viola Elizabeth Guinness (Classics)
Halcyone Ann Harger (History)
Judith Louise Hemstreet (Music)
Myra Bertha Hymovich (Economics)
Carolyn Elizabeth Isé (Art)
Helen Lewis Jackson (Physics)
Agnes Evelyn Kane (English)
Cecile Louise Lamalle (English)
Alice Loder Lane (English)
Ann Livingston (Philosophy)
Lesley Ellen Lowe (Government)
Susan Ellen McGuire (History)
Carole Lee Manishin (Art)
Beatrice Schieren Mathews (Music)
†*Sue Stiles Nickerson (Chemistry)
Nancy Denny Poole (English)
Hope Aldrich Rockefeller (American Studies)
*Vivian Rogosa (French)

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1959 AWARDS

Helen Louise Royes (History)
Marjorie Jean Seitz (Biber) (History)
Ethel Marion Silverberg (Sociology and Anthropology)
*Eleanor Brown Sturgis (French)
Marion Thomson Taggart (English)
Louaine Winora Taylor (Sociology and Anthropology)
Phyllis Ann Tremaine (History)
Florence Hubel Walker (Government)
Phebe Delight Wing (English)
Elizabeth Whitney Woodbury (History)
Class of 1951
Elizabeth Anne Bergen (Brophy) (Economics)

Magna cum laude

*Olivia Ames (History)
*Nancy Page Blemker (History)
*Susan Hale Bowditch (Badger) (Religion)
*Barbara Esther Bromson (Government)
*Elizabeth Strider Dunkman (American Studies)
*Nancy Louise Edelman (Sociology and Anthropology)
Jane Josephine Egan (Government)
*Barbara Louise Fultz (History)
Anne Longmore Giddings (Kimball) (English)
Linda Marjorie Gluckman (Government)
*Livia Rachel Goldeen (Greek)
*Madeleine Manus Greene (Government)
*Nancy Gunther (History)
*Joan Rosalind Halperin (Art)
*Judith Ruth Heller (English)
†*Gertrude Ann Hunter (Bacteriology)
Marcia Kutik (Frisfield) (History)
*Marjorie Elizabeth Lamberti (History)
*Susan Leffler (English)
*Elizabeth Guild Loeb (Music)
*Jane Elizabeth McFarland (Religion)
*Susan May Marder (Government)
*Ronny Gail Schulman (Government)
Sylvia Jennis Swanson (History)
*Blair Tillisch (Art)
Nancy Walker Veeder (American Studies)

1959 AWARDS

Class of 1958

Sally Hanger (Government)

Summa cum laude

*Carolyn Bareham Dineen (Philosophy)

*Elizabeth Warren Frederick (Music)

†*Shirley Liu (Chemistry)

*Prudence Allen Mack (English)

†*Anne Theodora Norris (Chemistry)

*Louise Gibbs Ritchey (English)

*Deborah Train Smith (Religion)

†*Jean Lorimer Sprowl (Mathematics)

*Jean Milne Weir (Greek)

CERTIFICATE OF GRADUATE STUDIES

Fernanda Barroso Beltrao, Diploma de Licenciada em Educação Física, Escola Nacional de Educação Física e Desportos, Universidade do Brasil, 1949. Physical Education.

Nilza Waldeck de Carvalho, Diploma, Professôra Primária, Instituto de Educação, 1954. Education and Child Study.

M.S. IN PHY. ED.

Judith Ann McMoran, B.S., Beaver College, 1958.

Elizabeth James Ross, B.S., Eastern Kentucky State College, 1956.

Mary Elizabeth Tripp, B.S. in Ed., State Teachers College (Bridgewater, Mass.), 1958.

ED. M.

Mary Louise Belden, A.B., Colby College, 1954.

Ruth Florence Bahr Hudgins, A.B., Oberlin College, 1939.

Mildred Willis Kirtland, A.B., Smith College, 1938.

Dorothy Stowell Schalk, A.B., Mount Holyoke College, 1924.

Ruth Ann Winkelstein, B.S., Syracuse University, 1957.

M.A.T.

Dorothy Frances Butler, B.A., Marymount College (Tarrytown, N.Y.), 1958. English.

Mabel Arlene Fisher Krapcho, A.B., Smith College, 1958. English.

Miyoko Sasaki, B.A., Tokyo University of Foreign Studies, 1955. English.

1959 AWARDS

A.M.

- Ellen Iris Amsterdam, A.B., Smith College, 1957. Music.
Jane Ann Barth, A.B., Mount Holyoke College, 1955. Chemistry.
Maureen Simonne Marie Brignall, B.A., University College, University of London, 1958. French.
Ann Terese Carey, A.B., Smith College, 1957. History.
Christine Kingsley Denny, A.B., Hope College, 1956. Theatre.
Claire Phyllis Ducharme, B.S., University of Massachusetts, 1954. Bacteriology and Public Health.
Marjorie Ann Fitzpatrick, A.B., College of Our Lady of the Elms, 1957. French.
Nawal Hassan, B.A., American University at Cairo, 1956. Sociology and Anthropology.
Anna Miriam Morgan, B.A., Park College, 1957. Zoology.
Mae Helen Nader, B.A., University of Arizona, 1958. History.
Kayoko Saito, B.A., College of General Education, University of Tokyo, 1957. History.
Cecelia May LaLonde Schake, B.S., Bowling Green State University, 1957. Geology and Geography.
Liang-Shian Shu, B.Sc., Taiwan Normal University, 1957. Chemistry.
Harriet Silverman, A.B., Hunter College, 1958. Music.
Jonelle Delaney Stickel Smith, A.B., Mount Holyoke College, 1951. Music.
Isabel Joy Merritt Unsworth, B.A., Wheaton College, 1949. Education and Child Study.
Marian Adair Werner, A.B., University of Rochester, 1957. Geology and Geography.

HONORARY DEGREES

Mary Kathleen Bell

A.M.

Dorothy Canning Miller

L.H.D.

Gwendolyn Grant Mellon

L.H.D.

Chien-Shiung Wu

SC.D.

1959 AWARDS

SCHOOL FOR SOCIAL WORK DEGREES

September, 1959

M.S.S.

- Anne Adler, A.B., Wayne University, 1948.
Margaret Bailey, B.A., M.A., St. Anne's College, University of Oxford, 1951, 1957.
Kristrun June Bjornson, B.A., University of Manitoba, 1949; B.S.W., University of Manitoba, 1951.
Mary McGovern Bonime, A.B., Radcliffe College, 1940.
Maxine Brown, B.S., University of Chattanooga, 1957.
Margaret Alice Burke, A.B., Albertus Magnus College, 1938.
Helena Helmi D'Avino, Certificate of Higher Studies, University of Paris, 1951.
Kathryn Marcella Dolezal, A.B., Western Reserve University, 1956.
Hazel Gardner, B.S., University of Georgia, 1946.
Constance Perry Gates, A.B., Smith College, 1957.
Judith Paula Gordon, Certificate, Paul Baerwald School of Social Work, 1952.
Barbara Agnes Hanus, B.S., University of New Hampshire, 1940.
Harriet Isabelle Harrison, A.B., Wayne University, 1948.
Elba Monsanto Jamal, B.A., Polytechnic Institute of Puerto Rico, 1948.
Elaine Bernice Joseph, A.B., Wheaton College, 1957.
Marilyn Suzanne Karlin, A.B., Antioch College, 1953; A.M., University of Michigan, 1955.
Mabel Kirkpatrick, A.B., Syracuse University, 1958.
Lenore Kramer, A.B., A.M., University of California, 1948, 1952.
Elma Kullmann, B.S., Elmira College, 1928.
Sylva Hoppage Ladd, B.S., Albright College, 1949.
Harriette Coffin Lewis, A.B., Smith College, 1957.
Virginia Cole Little, A.B., Oberlin College, 1941; A.M., Fletcher School of Law and Diplomacy, 1942; PH.D., Yale University, 1948.
Mary McBride, A.B., University of Pennsylvania, 1955.
Anna Margaret MacLauchlin, B.A., Winthrop College, 1945.
Barbara Jean Meadows, A.B., Talladega College, 1955.
Helen Virginia Meyer, A.B., San Diego State College, 1951.
Lynette Anne Whittaker Mock, B.A., Wellesley College, 1955.
Millicent Mae Norris, A.B., Queens College, 1956.
Anne Elizabeth Mendenhall O'Gara, A.B., University of Michigan, 1935.
Marjorie Anne Prout Olds, A.B., Miami University, 1957.
Nancy Elizabeth Randolph, B.S., Boston University, 1956.
Betty George McDaniel Ricketts, A.B., Miami University, 1957.
Karis Edgington Say, A.B., University of Rochester, 1957.

1959 AWARDS

- Margot Schmitt, B.S., Adelphi College, 1948.
- Florence Keys Slavin, B.S. Elementary Education, Eastern Montana College of Education, 1957.
- Janet Carolyn Mourton Smith, A.B., Boston University, 1957.
- Elizabeth Marie Stanley, B.A., College of the Pacific, 1958.
- Janet Ruth Steiner, A.B., University of Pittsburgh, 1956.
- Saundra Zackim Sternberg, A.B., Hunter College of the City of New York, 1955.
- Marie-Louise Studer, Diploma, University of Paris, 1947; Diploma, School of Social Work, Zurich, 1954.
- Judith Dorothy Svirsky, A.B., Bates College, 1957.
- Audrey Anne Thayer, A.B., Wheaton College, 1957.
- Mimi Emily Wannamaker, A.B., Duke University, 1953.
- Barbara Ann Watson, A.B., University of Michigan, 1957.
- Susan Martha Weil, B.A., Carleton College, 1956.
- Jane Hittinger Westin, A.B., Wilson College, 1942.
- Natalie Jane Woodman, A.B., New York University, 1957.

Smith College School for Social Work

THE STAFF

HOWARD J. PARAD, M.S. IN S.S.	<i>Director</i>
ESTHER H. CLEMENCE, M.S.S.	<i>Director of Field Work</i> <i>Associate Professor of Social Work</i>
HELEN PINKUS, M.S.S.	<i>Associate Professor of Social Work</i>
ROGER R. MILLER, D.S.W.	<i>Editor of Smith College Studies in Social Work and Supervisor of Research</i>
EUNICE F. ALLAN, M.S.S.	<i>Supervisor of Field Work</i> <i>Social Casework</i>
ELIZABETH CLARK JOHNSON, S.B.	<i>Executive Secretary and Registrar</i>

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. These at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include not only the better care of cases of mental illness and mental defect, but prevention of delinquency and the development of child guidance clinics. Psychiatric social workers were eagerly sought for the casework staffs of hospitals and community clinics and to carry preventive mental hygiene into courts, schools, and the public services. Social casework is a professional service which requires scientific knowledge and disciplined skill. Competent practice calls for the exercise of judgment and discretion.

EDUCATIONAL PLAN

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of pro-

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

fessional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, and medical social work.

Courses offered in any one term are planned as a sequence and to achieve a total integration. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and further the development of a professional attitude and point of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Forty-three agencies in twenty-four cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a weekly seminar throughout the winter.

During the field work period thesis subjects are selected and worked on under the guidance of members of the school faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A, the regular curriculum, covers three summer sessions in academic study on the Smith campus and two winter sessions in field work in agencies selected by and responsible to the School for the educational work.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory experience in an approved casework agency.

Plan C admits persons for a single summer session. Full credit will be given toward the degree provided the student is accepted for readmission to complete the course within a period of two years.

The School *Catalogue* giving full details for the coming year will be sent upon request.

Degrees

The Trustees of Smith College, on the recommendation of the staff, grant the degree of Master of Social Science (M.S.S.) on the following conditions: (a) completion of the period of residence, namely, a minimum of five quarters of full-time work; (b) satisfactory completion of the courses required, unless exempted by examination when advanced work may be substituted; (c) satisfactory completion of a thesis.

Admission

The Smith College School for Social Work is open to women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Director, Smith College School for Social Work, Northampton.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Expenses

The fee for each summer session is \$375 which covers tuition, room, and board. For each winter session the fee is \$150.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$2,000 are granted upon recommendation of the School by the United States Public Health Service and other Government agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1960-62

First Session	June to September 1960
Second Session	September 1960 to June 1961
Third Session	June to September 1961
Fourth Session	September 1961 to June 1962
Fifth Session	June to September 1962

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

PROGRAM OF ADVANCED STUDY

(Third Year)

This program of twelve months, July to July, is designed for experienced graduate caseworkers in preparation for practice, supervision, teaching, and administration. It is assumed that candidates undertaking this advanced curriculum will be preparing for positions of increased responsibility and leadership.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

The program consists of formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a more thorough understanding of the dynamics of personality and social environment and of treatment methods. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

The course is open to graduates of approved schools of social work who are well prepared in psychiatrically oriented casework, and who, following graduation, have had a minimum of three years of successful experience in a qualified casework agency.

The Board of Trustees of Smith College, upon the recommendation of the faculty, will grant a diploma to students who satisfactorily complete the course.

Alumnae Association

Officers

President, MRS THOMAS THACHER RICHMOND, Weed Street, New Canaan, Conn.

Vice-President, MRS THOMAS H. ELIOT, 7129 Washington Avenue, St. Louis 30, Mo.

Clerk, MISS ADELAIDE HOMER, 41 Glen Road, Winchester, Mass.

Treasurer, MRS JOHN T. RODGERS JR., Reedsville, Pa.

Directors:

MRS WILLIAM R. BINGHAM, 80 Beechwood Drive, Wayne, N. J. (Finance Chairman)

MRS ARMIN ELMENDORF, 56 Granada, Portola Valley, Calif.

MRS HAROLD E. ISRAEL, 42 West Street, Northampton, Mass. (Education Chairman)

MRS KENNARD G. KEEN JR., 812 Potts Lane, Byrn Mawr, Pa.

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Summary of Students in College

1959-1960

FRESHMAN CLASS (1963)	583
SOPHOMORE CLASS (1962)	600
Paris	1
JUNIOR CLASS (1961)	546
France	32
Guest Students	9
Geneva	25
Guest students	12
Italy	7
Guest students	9
Munich	12
Spain	10
Guest students	6
Toronto	1
SENIOR CLASS (1960)	525
Out of residence	6
TOTAL UNDERGRADUATES	2254
GRADUATE STUDENTS	91
FOUR COLLEGE STUDENTS	45
NONCOLLEGIATE STUDENTS	5
TOTAL	2395

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1960	Class of 1961	Class of 1962	Class of 1963	Graduate Students
Alabama	0	2	1	5	1
Alaska	0	0	1	0	0
Arizona	0	4	1	1	0
Arkansas	0	1	2	1	0
California	11	13	17	20	2
Colorado	11	6	3	6	0
Connecticut	50	54	68	49	3
Delaware	3	2	6	5	0
District of Columbia	15	8	10	10	0
Florida	5	4	7	11	0
Georgia	0	3	1	3	0
Hawaii	2	4	1	1	0
Idaho	0	0	0	0	0
Illinois	29	19	25	15	1
Indiana	4	2	3	4	3
Iowa	2	4	0	3	1
Kansas	0	1	2	4	0
Kentucky	1	5	3	2	0
Louisiana	2	2	1	2	0
Maine	4	9	6	7	0
Maryland	13	8	14	14	0
Massachusetts	71	88	80	76	41
Michigan	11	7	12	9	1
Minnesota	5	8	12	14	0
Mississippi	1	0	0	1	1
Missouri	9	15	15	9	0
Montana	1	0	2	1	0
Nebraska	1	1	0	3	0
Nevada	0	1	0	0	0
New Hampshire	5	5	4	5	0
New Jersey	44	54	72	56	3
New Mexico	1	0	0	0	0
New York	116	100	104	119	6
North Carolina	1	3	3	1	1
Ohio	27	23	37	26	3
Oklahoma	2	3	3	2	0
Oregon	0	2	0	2	1
Pennsylvania	26	32	33	38	1
Rhode Island	2	6	4	3	0
South Carolina	1	1	1	2	0

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of					Graduate
	1960	1961	1962	1963	Students	
South Dakota	2	2	0	0	0	
Tennessee	2	0	1	1	0	
Texas	8	5	9	12	2	
Utah	1	0	1	1	0	
Vermont	3	2	6	1	3	
Virginia	10	13	12	15	0	
Washington	3	4	2	4	0	
West Virginia	1	1	0	1	0	
Wisconsin	6	6	5	7	0	
Wyoming	2	0	1	1	1	
	514	533	591	573	75	
Argentina	1	0	0	0	0	
Bahamas	1	0	0	0	0	
Bermuda	1	1	0	0	0	
Brazil	0	0	1	0	2	
Canada	1	3	2	3	1	
Chile	0	0	1	0	0	
China	0	0	0	0	2	
Cuba	0	0	1	2	0	
Denmark	0	0	1	0	0	
England	1	1	0	1	2	
France	1	1	0	0	0	
Germany	0	1	1	0	0	
Ghana	0	0	0	1	0	
Greece	0	2	1	0	0	
Hungary	1	0	0	0	0	
India	0	0	0	0	3	
Japan	0	1	0	1	1	
Kenya	0	1	0	0	0	
Korea	1	0	0	0	0	
Malaya	0	0	0	1	0	
Philippines	2	1	0	0	1	
Poland	0	0	1	0	0	
Norway	0	0	0	1	0	
Sweden	0	1	0	0	0	
Thailand	0	0	0	0	1	
Turkey	0	0	0	0	2	
Wales	0	0	0	0	1	
Yugoslavia	1	0	0	0	0	
	525	546	600	583	91	

EXAMINATION SCHEDULES

Schedule of Midyear Examinations for the Year 1959-60

This schedule should be consulted before courses are elected.

The term "sectioned course" as used in this schedule means a course in which there are no hours of meeting in common for all the students of the course.

Examinations for courses not included will be arranged before the examination period.

	<i>Tues. Jan. 19</i>	<i>Wed. Jan. 20</i>	<i>Thurs. Jan. 21</i>	<i>Fri. Jan. 22</i>	<i>Sat. Jan. 23</i>
8:00-10:20	Music 11 Music 21	All classes scheduled for Th F 4 except sectioned courses	French 22a	Philosophy 11 Philosophy 24	All classes scheduled for W Th F 3 except sectioned courses
10:45-1:05	All classes scheduled for M T W 3 except sectioned courses	All classes scheduled for M T W 12 except sectioned courses	English 30a Psychology 11a	All classes scheduled for Th F S 11 except sectioned courses	Religion 11 Speech 11a Speech 12a
2:30-4:50	French 11d French 12 French 13 French 15 French 16 French 25 French 26	Education 23a Physics 11 Psychology 23a Theatre 12 Second Semester, Education 23b Psychology 23b	All classes scheduled for M T W 11 except sectioned courses	Economics 21	All classes scheduled for M T W 9 except sectioned courses

Schedule of Midyear Examinations for the Year 1959-60

Continued

	<i>Mon. Jan. 25</i>	<i>Tues. Jan. 26</i>	<i>Wed. Jan. 27</i>	<i>Thurs. Jan. 28</i>
8:00-10:20	Mathematics 12 Mathematics 13 Mathematics 21a Mathematics 22a	All classes scheduled for Th F S 10 except sectioned courses	English 11 General Lit. 291	All classes scheduled for W Th F 2 except sectioned courses
10:45-1:05	All classes scheduled for M T W 10 except sectioned courses	All classes scheduled for Th F S 12 except sectioned courses	All classes scheduled for Th F S 9 except sectioned courses	All classes scheduled for M T W 2 except sectioned courses
2:30-4:50	Italian 11 Italian 11b Russian 11 Russian 21 Spanish 11 Spanish 11b Spanish 12 Spanish 16 Spanish 25	German 11 German 11b German 12 German 26	All classes scheduled for M T 4 except sectioned courses	History 11

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NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 1, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Scholarships and Student Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

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Miss Charlotte H. Fitch, *Dean of the Class of 1963*

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1960

1961

1962

JULY						
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31						

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NOVEMBER						
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DECEMBER						
S	M	T	W	T	F	S

College Calendar

FIRST SEMESTER 1960-61

SATURDAY, SEPTEMBER 24, 9:00 A.M.-3:00 P.M., Registration for Freshmen
TUESDAY, SEPTEMBER 27, 9:00 A.M., First Chapel and Registration
WEDNESDAY, SEPTEMBER 28, 9:00 A.M., Classes begin
A DAY AFTER OCTOBER 10, Mountain Day (*holiday*)
MONDAY, NOVEMBER 21, Midsemester grades due
WEDNESDAY, NOVEMBER 23, 12:50 P.M. to MONDAY, NOVEMBER 28, 9:00 A.M., Thanksgiving Week End
TUESDAY, DECEMBER 20, 12:50 P.M. to WEDNESDAY, JANUARY 4, 9:00 A.M., Winter Recess
JANUARY 11 through 23, Reading Period
MONDAY, JANUARY 23, Free Day for courses not having Reading Period
JANUARY 24-FEBRUARY 2, Midyear Examinations

SECOND SEMESTER 1960-1961

MONDAY, FEBRUARY 6, Second Semester begins
MONDAY, MARCH 20, Midsemester grades due
WEDNESDAY, MARCH 22, 12:50 P.M. to THURSDAY, APRIL 6, 9:00 A.M., Spring Recess
MAY 15-26, Reading Period
FRIDAY, MAY 26, Free Day for courses not having Reading Period
MAY 27-JUNE 6, Final Examinations
SUNDAY, JUNE 11, Commencement Day

OPENING OF COLLEGE 1961-1962

SATURDAY, SEPTEMBER 23, Registration for Freshmen
TUESDAY, SEPTEMBER 26, First Chapel and Required Registration
WEDNESDAY, SEPTEMBER 27, Classes begin

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expires*

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 **absent for the second semester; || with the Juniors in France; ‡ in Spain; § in Geneva;
 | in Italy; †appointed for the first semester; *appointed for the second semester.

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(1960)
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Associate Physician Emeritus (1960)
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Literature
Professor of History
Professor of German Language and
Literature

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Friends of the Library, Director of
the Sophia Smith Collection
College Physician

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ture

Professor of French Language and Lit-
erature on the Helen and Laura Shedd
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erature

Professor of Art
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Professor of Music

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Professor of Music

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Dean of Students

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Professor of Chemistry and Director of Graduate Study

Professor of Psychology

Dean and Professor of Music

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Professor of Music

Professor of Chemistry

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**absent for the second semester

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The President, the Dean (*chairman*), Mr de Villafranca (1961), Miss Kenyon (1961), Miss Lincoln (1961), Mr Wendell Johnson (1962), Mr Josephs (1962), Miss Peoples (1962), Miss Helen Bacon (1963), Mr Cohn-Haft (1963), Miss Elinor Smith (1963).

BOARD OF ADVISERS

The Dean (*chairman*), Mr Bragdon, Miss Corwin, Mr Doland, Miss Fitch, Miss Gabel, Mr Gotwals, Miss Hadley, Miss Lincoln, Mr McCoy, Mr MacSherry, Mr Mair, Miss Peoples, Miss Schnieders, Miss Te Winkel, Mrs Van der Poel, Mrs Whitmore, and Miss Robinton (*ex-officio*).

HONORS

Miss Mohler (*chairman*), the President, the Senior Class Dean, the Junior Class Dean, Mr Durham, Miss Garsoian, Mr Gessert, Mr Lewy, Mr Petersson.

GRADUATE STUDY

Mr Sherk (*chairman*), the President, Mr Bragdon, Mr Cohn-Haft, Mr de Villafranca, Miss Mott, Miss Muchnic, Mr Snyder, Mr Van Voris.

FOREIGN STUDENTS

Mr Van Voris (*chairman*), Miss Helen Bacon, Miss Brown, Mr Cohn-Haft, Mr Durham, Mr Lettau, Mr MacSherry, Miss Sturm, Miss Mensel, Mrs Davis (*ex officio*).

OTHER COLLEGE BUSINESS

ATTENDANCE AT LEARNED SOCIETIES

Mr Mair (*chairman*), Mr Ellis, Mr Huntington.

COMMITTEES OF THE FACULTY

FACULTY OFFICES

Mr Petersson (*chairman*), Mrs Hoyt, Mr Mair.

HONORARY DEGREES

*Mrs Kennedy (*chairman*) (1961), **Miss Carter (*acting chairman for the first semester*) (1962), Mr Josephs (1963). Substitute for the first semester: Mr Hitchcock; substitute for the second semester: Miss Gabel.

JUNIPER LODGE

**Miss Stobbe (*chairman*), Miss Hornbeak (*acting chairman for the second semester*), Mrs McClumpha (*secretary*). Substitute for the second semester: Mrs Kierstead.

LECTURES

Mr Sheehan (*chairman*), Mr Aaron, Mr Burdick, Mr Connelly, Mrs Kierstead, Mr Rothman.

LIBRARY

Mr MacSherry (*Chairman*), the Librarian, Miss Gasool, Mr Mendelson, Miss Walsh.

MARSHALS

Mr Sherk (*College Marshal*), Mr Burdick, Miss Helen Bacon, Miss Benson, Miss Brown.

MOTION PICTURES

Mr Brann (*chairman*), Mr Cohen, Mr Mead, Miss Sonnenfeld, Miss Ruth Young, Mrs Cantarella (*secretary*).

SCHOLARSHIPS

The President (*chairman*), the Dean, the Dean of Students, Miss Mensel, Mr Bodden, Mrs Haigh, Mr Spees, Mr Van Voris (*ex-officio*).

STUDENTS' AID SOCIETY

Mrs Kierstead (*chairman*), Mrs Hobbs.

CHAIRMEN OF ACADEMIC DIVISIONS

- I THE HUMANITIES: Miss Peoples
- II SOCIAL SCIENCES AND HISTORY: Mr von Klemperer
- III NATURAL SCIENCES AND MATHEMATICS: Mr Wright

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid had been amassed by a man who, like many Americans, had made a fortune without any apparent ulterior purpose. He seems to have bequeathed it to his sister because he had not made up his mind what else to do with it. Sophia Smith left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form the substance of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity, and the only prescription is the pervading of instruction by the spirit of the gospel of Jesus Christ. This injunction has been obeyed in the past, we trust and believe it is being obeyed in the present, and there is no reason to believe that it will not be willingly and gladly observed in the future.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laorenus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same emphasis on literature, art, and music. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to 122; its student body from 14 to 1635; its buildings from three to 35. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over

HISTORY OF SMITH COLLEGE

1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern now generally familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson

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retired at the end of the academic year 1938-39; during the interregnum Mrs. Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942 and the closing of the school in January, 1945 more than ninety-five hundred women received their commissions.

After the war, the College returned to the regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, and faculty salaries were increased. After ten years in office, Mr. Wright resigned in order to resume writing and research in the field of constitutional law. Before leaving to take up a faculty fellowship at the Institute of Behavioral Sciences in Palo Alto, he announced the receipt of a large gift to the College to be used for a new faculty office and class room building to be named in his honor.

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of

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History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching program.

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of 13 acres and a campus of 206 acres; between Sophia Smith's legacy of \$400,000 and total assets of \$48,173,782, between the first class of 14 and today's enrollment of 2,485; between the 11 graduates of 1879 and an alumnae roster of 31,575. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars: KURT KOFFKA, PH.D. *Psychology*. 1927-32.

G. ANTONIO BORGES, PH.D. *Comparative Literature*. 1932-35.

SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.

ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.

GEORGE EDWARD MOORE, D.LIT., LL.D. *Philosophy*. First semester, 1940-41.

KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.

CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.

ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.

EDGAR WIND, PH.D. *Art*. 1944-48.

DAVID NICHOL SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.

DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.

PIETER GEYL, LIT.D. *History*. Second semester, 1951-52.

WYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.

ALFRED KAZIN, M.A. *English*. 1954-55.

HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.

PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.

KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.

ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.

PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC. A.M. (HON.). *Physics*. First semester, 1960-61.

Admission of Undergraduates

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request, and by paying a registration fee of \$15 which is not refunded. If possible, such registration should be made well in advance of entrance to enable the applicant to receive the benefit of advice in making her entrance plans. Although the date of application is not considered in the selection of candidates, rooms in college houses are assigned to freshmen in order of their dates of application for admission. Applications must be received not later than February 15 in the year of entrance.

SELECTION OF CANDIDATES

The Board of Admission meets in April each year to evaluate the records of the applicants to the Freshman Class. Its purpose is to select students who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation. The Board's estimate of the student's ability, motivation, and maturity is based upon her secondary school record, rank in class, recommendations of the principal and a teacher, results of the College Board examinations, and other available information. An interview is not required but is often helpful both to the candidate and to the Board. The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

EARLY DECISION ON ADMISSION

Candidates who are clearly well-qualified in every respect and have made application *only* to Smith College may submit their applications for consideration at the November meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision early in December. Decisions are based upon the same general criteria as at the spring meetings, except that the record is a three-year one. The Scholastic Aptitude Test should be taken in March of the junior year and the three Achievement Tests in May.

Candidates interested in this admission procedure should write to the Board of Admission for the pamphlet, *Plan for Early Decision on Admission*.

SECONDARY SCHOOL PREPARATION

In planning her preparation for entrance, a candidate should bear in mind the

ADMISSION OF UNDERGRADUATES

different ways in which her choice of courses in high school will strengthen her preparation for entrance.

The preparatory program recommended below is intended to assure for the student a satisfactory basis for the work which she will be asked to do on a college level. The discipline and the knowledge acquired from the study of English, languages, mathematics, science, and history have a general bearing upon all college studies.

As foundation for college work, the student should have completed a four-year secondary school program giving her a minimum of sixteen credits and corresponding to one of the curricula presented below. The elective work may be in language, mathematics, science, history, art, Bible, or music. For special information concerning entrance credits for art, Bible, and music, apply to the Board of Admission.

<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>
English	4	English	4	English	4
Language	3*	Language	5**	Language	5**
Mathematics } Science }	4†	Mathematics	2§	{ Mathematics { Science	4†
History	2‡	Science (laboratory)	1	History	1
Elective	3	History	2‡	Elective	2
	—	Elective	2		—
Total	16		—		—
		Total	16		16

* Or two years in each of two different languages, making a total of four. No credit will be given for one year of a language.

**One of the languages should be Latin or Greek.

† Three in mathematics and one in a laboratory science.

‡ In different fields.

§ Algebra and plane geometry (may be an integrated course).

The College is aware of the fact that there is variation among school curricula throughout the country. It is willing to give careful consideration to able students whose programs deviate at some points from those suggested above.

ENTRANCE TESTS

Candidates for admission to the Freshman Class are required to take the Scholastic Aptitude Test and three Achievement Tests of the College Entrance Examination Board. One Achievement Test must be in English; the others must be selected from two of these fields: (1) foreign languages, (2) mathematics or science, (3) social studies. It is strongly recommended that these tests be taken in subjects studied in the year the tests are taken.

ADMISSION OF UNDERGRADUATES

All candidates, with the exception of early decision applicants, will be required to take these tests in their senior year. Students who complete the school course in June will be expected to take the three Achievement Tests in March of that year and the Aptitude Test in December or January. Those students who are graduated in the middle of the year should take all the tests in December. The Board of Admission advises all candidates to take the Scholastic Aptitude Test for guidance purposes in March or May of their junior year. Achievement Tests are optional in the junior year.

COLLEGE BOARD EXAMINATIONS

The College Entrance Examination Board will send free of charge to any school or applicant a copy of its *Bulletin of Information* which contains full data concerning application, fees, and examination centers.

All candidates, except those living in states or foreign areas listed below, should make application by mail to the *College Entrance Examination Board, Box 592, Princeton, New Jersey*. Those who wish to take the examinations in Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, Alberta, British Columbia, Manitoba, Northwest Territories, Saskatchewan, Yukon, Mexico, Australia, Pacific Islands including Formosa and Japan should address their inquiries and send their applications to the *College Entrance Examination Board, Box 27896, Los Angeles 27, California*.

In order to facilitate the arrangements for the conduct of the tests all applications should be filed at least a month before the test is to be taken. The fee for the Scholastic Aptitude Test is \$4; for the Achievement Tests \$6. Applications and fees should reach the office of the Board not later than the dates specified in the *Bulletin of Information*. The final date for filing application for examination at an established center outside the United States, Canada, Canal Zone, Mexico, and the West Indies is approximately two months prior to the date of the examination. Late applications will be subject to a penalty of \$3 in addition to the regular fee.

Requests for the establishment of new overseas centers should reach the appropriate Board office at least two months prior to a scheduled examination date.

ADVANCED PLACEMENT

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. Students who have taken college level courses in secondary schools which also participate in this program are strongly urged to take the College Board Advanced Placement Examinations given late in the spring of senior year. On the basis of satisfactory examinations, these students may then be eligible to enter sophomore courses in the individual subjects.

ADMISSION OF UNDERGRADUATES

FOREIGN STUDENTS

Smith College is interested in admitting qualified foreign students. Applicants are advised to communicate with the Director of Admission well in advance of entrance in order that the College may advise them concerning entrance plans.

ADVANCED STANDING STUDENTS

The College admits each year a small number of sophomores and juniors by transfer from other colleges. Candidates for admission with advanced standing are judged on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their school and college programs should correlate with the general college requirements given on p. 39 of this *Catalogue*. When making application for admission with advanced standing, students should include a detailed statement of their previous educational experience and their reasons for wishing to transfer. To be eligible to make application for transfer, a student is expected to be doing work of honor grade at the institution she is attending.

Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying hours above the minimum or taking work in an approved summer school. During their first semester in residence, advanced standing students may not elect more than seventeen hours except by permission of the Administrative Board. At least two years' residence at Smith College is ordinarily required of a candidate for the degree of Bachelor of Arts.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only in the following February.

NONCOLLEGIATE STUDENTS

Qualified persons beyond the age of the undergraduate may be admitted to courses of study or to supervised research work with the approval of the Registrar and the instructor concerned. Auditors should obtain the permission of the Registrar and of the instructor concerned. (See p. 165 for fees.)

The Curriculum

As candidates for the degree of Bachelor of Arts, undergraduate students normally follow a four-year program in which they are required to complete one hundred and twenty hours of academic work as well as prescribed courses in physical education.* For graduation they must achieve a cumulative average of C (fair) in their academic work and a C average in the senior year; in computing these averages plus and minus signs are not taken into account. The minimum schedule for a semester consists of fifteen credit hours.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

ORGANIZATION OF THE CURRICULUM

DIVISION I. THE HUMANITIES

GROUP A. *Literature:* Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature

GROUP B. *Fine Arts:* Art, Music, Theatre

GROUP C. *Philosophy, Religion*

DIVISION II. SOCIAL SCIENCES AND HISTORY

GROUP D. *History*

GROUP E. *Social Sciences:* Economics, Education, Government, Sociology, Social Science

DIVISION III. NATURAL SCIENCES AND MATHEMATICS

GROUP F. *Physical Sciences and Mathematics:* Astronomy, Chemistry, Geology, Physics, Physical Science, Mathematics

GROUP G. *Biological Sciences:* Bacteriology, Botany, Psychology, Zoology, Biological Science

Speech and Physical Education are associated with Divisions I and III respectively.

*For this requirement in Physical Education see page 121.

THE CURRICULUM

GENERAL COLLEGE REQUIREMENTS

The program of the first two years of the college course is generally diversified, while the last two years are devoted primarily to study in a major field which is chosen at the end of the sophomore year.

Because the College considers experience in certain fields of knowledge essential to a liberal education, it has set a number of special and distribution requirements to be completed before graduation.

SPECIAL REQUIREMENTS

- (1) Six semester hours in Freshman English, required in the first year.

A few students with exceptionally high entrance records in English will be exempted from the requirement. Such students will be notified of exemption in the summer and may, if they wish, elect a Grade II course in English. A list of courses open to them will be sent with notification of exemption.

Freshmen who do not pass English 11 with a satisfactory grade must work tutorially in sophomore year with the Committee on Special Assistance in Written English.

- (2) Six semester hours in a foreign language. The minimum prerequisite for courses which fulfill the requirement is three entrance units in a language or six hours in college. Courses which fulfill the requirement are marked (L) and are offered in the following departments: Classics, French, German, Italian, Russian, Spanish.

NOTE—*Students who enter with two units in a modern language and who wish to fulfill the requirement in that language must plan to take two courses as prerequisite.*

- (3) Students entering without units in Latin or Greek are required to take either Latin 11 or Greek 11, or six hours of classical literature in translation.

DISTRIBUTION REQUIREMENTS

- (1) Six semester hours in literature (Group A: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature). This course must be taken in a language other than the one used to fulfill the foreign language requirement.
- (2) Six semester hours in Art, Music, Theatre (Group B) or Philosophy, Religion (Group C). Students are urged to take six semester hours in each group if possible.

THE CURRICULUM

- (3) Six semester hours in History (Group D).

Exemption from this requirement will be granted to students who offer at least three units of the proper content: ancient, American, European (medieval and modern, or modern since 1600), and who pass an examination in one of these fields, administered by the Department after the opening of college. This examination must be taken at the beginning of freshman year.

- (4) Six semester hours in Government, Economics, Sociology, or Social Science (Group E).

In rare cases students with preparation in these fields may be granted exemption on the basis of an examination. Application should be made to the Class Dean.

- (5) Six semester hours in Astronomy, Chemistry, Geology, Physics, Physical Science (Group F) or Botany, Zoology, Biological Science (Group G). Students are urged to take six semester hours in each group if possible.

Beginning with the Class of 1961, students who have had two years of laboratory science in the last three years of secondary school may fulfill this requirement through certain prescribed courses in mathematics or psychology.

The courses which may be taken to fulfill these distribution requirements are named at the head of each department offering and specified in the list of Inter-departmental Courses, on page 49.

THE MAJOR

In the junior and senior years the student devotes half or more of her time to study in a single field selected on the basis of a course or courses taken in the first two years. Major programs, which are offered in all departments except Physical Education and Speech, are described under the department offerings (see pp. 51 ff.). When a student enters upon her major she comes under the direction of a major adviser and obtains the approval of that adviser for her major program.

Of the thirty semester hours required in the major at least eighteen must be in courses of Grade III or higher in the field of concentration and of these twelve must be in the department. Students are required to take not less than twelve hours in the major field in each of junior and senior years. Courses taken in sophomore year, exclusive of the basic course, may be counted in the major.

At least six semester hours in the junior or the senior year must be taken in a division other than the one in which the student is majoring.

In the junior and senior years not more than twelve semester hours of Grade I, and not less than twenty-four semester hours above Grade II, may be taken for credit toward graduation.

The curriculum includes interdepartmental majors in American Studies, General Literature, Bacteriology, Biochemistry, Premedical Science (see pp. 155 ff.).

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THE JUNIOR YEAR ABROAD

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in Paris, Italy, Spain, and Germany are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, history, or sociology. Majors in other fields with adequate preparation in language may apply to the appropriate committees with the consent of the department of the major. Properly prepared students from other colleges may be admitted to the groups.

The Junior Years Abroad are planned to afford as rich an opportunity as possible to observe and study the countries visited. Art, music, and theatre are available, and the Directors arrange occasional meetings with outstanding scholars, writers, and leaders. During the vacations students are free to broaden their acquaintance with the country, although they may stay in residence if they prefer.

Applications, including permissions from parents, must be made by February 15 at the Office of the Registrar. The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the college year.

The fee covering tuition and board is \$2500; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable on May 1 by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless written notice of withdrawal from the group is received before June 1. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton.

Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. Students are required to carry health and accident insurance which is available through a general college plan.

PARIS: Arrangements are made for students to live in Paris with carefully selected families. Full-time junior programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. The language require-

THE CURRICULUM

ment for admission to the group is usually two years of college French beyond three entrance units.

ITALY: The work of the year begins with a month in Siena where study of the language and of art and literature is undertaken with special instructors. After the first of October this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence. The subjects offered are Italian art, history, language, and literature. In Siena the students stay in a country villa; in Florence they live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian. By special action of the committee, promising students with only one year of Italian may be accepted.

SPAIN: After a preliminary month of intensive training in language spent in one of the provincial cities, the juniors go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

GENEVA: The work in Geneva emphasizes international studies rather than the history and culture of a single country, and accordingly the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. As the classes are conducted in French, students are encouraged to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered.

GERMANY: The work of the Junior Year at Hamburg will consist largely of courses taken at the University supplemented, wherever necessary and desirable, by work with German tutors or by specially arranged courses. Courses in German literature, philosophy, art, music, history, some science, etc., are available. A preliminary five-week period of intensive language training will be spent in another German city. A minimum of two years of college German is the normal requirement for admission.

EXCHANGE PROGRAM WITH TORONTO

Since 1945 an exchange of students in the junior class with juniors at the University of Toronto has proved to be highly successful. For the year the Smith juniors live in the colleges of the University and carry on programs approved by their major advisers. Candidates from Smith must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department. Not more than eight exchanges will be arranged in any year.

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FOUR COLLEGE COOPERATION

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for the purpose of extending and enriching their collective educational resources and have worked out procedures for the proper utilization of these resources by each member of the group. As a result, any student in any one of the four institutions may take any course for credit in any of the other three if he or she has the necessary qualifications for the work of the course and if the request is approved by the student's own Dean. Catalogues of the courses offered in the other institutions are at the loan desk in each library and in the offices of all chairmen of departments. Application blanks are in the office of the Dean and that office will help with the arrangements for transportation. Requests are usually for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and probably the most important of our cooperative ventures is the Hampshire Inter-Library Center (HILC), a separate legal entity controlled by a Board of Directors made up of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently: it is now located in the new wing of the Goodell Library on the campus of the University of Massachusetts. The FM Radio Station (Western Massachusetts Broadcasting Council, Inc., WFCR 88.5) is likewise a legal entity, controlled by a Board of Directors made up of representatives of all four institutions.

Other cooperative activities, all designed to give added strength in one way or another to each individual institution, include, among others, the following: a joint Astronomy department; new courses in the History of Science; new courses in Non-Western Studies, financed for three years by the Ford Foundation; a Ph.D. program; a Film Center; a common Calendar of lectures and concerts on all four campuses, printed in advance for each semester; a committee on transportation, with an executive chairman; and a Coordinator who is a member of the administration in all four institutions. Additional cooperative projects are in the planning stage.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. This program allows for flexibility in the planning and execution of the work of the major and at the same time gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD: The degree is awarded with honors in three grades, *summa cum laude*, *magna cum laude*, and *cum laude*, based on (a) an independent piece of work which

THE CURRICULUM

may involve the preparation of a long paper or the conduct of an investigation, (b) an estimate of the work in courses and units in the major field made by the department of the major, and (c) three final examinations.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

THE DEGREE WITH DISTINCTION

The Degree with Distinction is awarded to students who maintain a minimum average of 3.4 for the senior year and who have achieved a cumulative average of 3.5 or better in the sophomore, junior, and senior years.

ADMISSION: A student having an average of B for the three semesters preceding her application is eligible for honors. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments students may enroll at the beginning of either semester of junior year or at the beginning of senior year. They may withdraw only upon recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualifications.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program (with the permission of the director she may carry less than fifteen hours) and will be exempt from all course examinations at the end of the senior year. Honors students will be given preference over other undergraduates when admission to units must be limited, and may be given such preference when admission to seminars must be limited.

ACADEMIC RECORD

Grades are given with the following significations: A, excellent; B, good; C, fair; D, poor; E, failure.

Students are named on the Dean's List when in the previous year they have achieved an average of B or better.

Students who fail to maintain diploma grade or fail to register and attend classes in accordance with the regulations are placed on the Registrar's List. They are subject to special requirements in attendance of classes. Further details concerning the Registrar's List are printed in the *College Handbook*.

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A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work carried above the minimum.

A student whose college work is generally unsatisfactory is subject to exclusion from college.

A student who has failed in the work of five or more hours in two consecutive semesters or in any three semesters, or has failed in the work of ten or more semester hours in a year is excluded from college unless special exception is made by vote of the Administrative Board.

PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected to membership in April. In 1920 provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

Smith College was the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

RULES GOVERNING ELECTION OF COURSES

1. Each student is expected to make herself familiar with all regulations governing the curriculum.
2. Certain conditions require the presentation of permission slips or of petitions to the Administrative Board. (A petition to the Board requires the recommendation of the chairman of the department and of the instructor concerned.) Petition slips may be obtained from the Office of the Class Deans.
 - (a) Students who wish to enter a course for which they have not had the stated prerequisite must file a petition with the Administrative Board.
 - (b) Freshmen and sophomores who wish to enter a course of a higher grade than is normally open to their class must file a petition with the Administrative Board. Exceptions in the languages and sciences are made for those students who have the stated requirements.

THE CURRICULUM

(c) Juniors not taking honors work who wish to enter a course of Grade IV (including seminars) must have the permission of the department concerned and file a petition with the Board.

(d) Seminars of Grade IV, limited to twelve students, are open to juniors and seniors only by permission of the instructor. Students not candidates for honors are permitted to take only one seminar in a semester.

(e) Special Studies of Grade IV are open only by permission of the department. They are limited to seniors who have had twelve semester hours above Grade I and are majoring in the department concerned.

(f) Grade V courses are open to seniors only if they have a major or its equivalent in the department and if they have at least a B average in that major. Under these conditions they may be admitted by permission. They may not carry more than three hours of Grade V work a semester except in technical art and practical music unless they have special permission from the Administrative Board.

(g) A student may not carry in any semester less than the required minimum of fifteen hours or more than two hours above the required minimum except with the permission of the Administrative Board.

A shortage of hours permitted by the Administrative Board may be made up by a corresponding excess of hours distributed over succeeding semesters.

(h) A year course may not be entered in the middle of the year except with the permission of the Administrative Board and the consent of the department concerned. When a year course is dropped, credit for the first semester is not allowed except with the recommendation of the instructor and the chairman of the department and the permission of the Administrative Board.

3. In each semester of the freshman and sophomore years the student must carry at least four three-hour courses.

4. Changes in courses may be made without fee until September 15. Thereafter changes may be made through the first week of college only at a charge of five dollars, unless the change has been initiated by an instructor or is the result of curriculum changes beyond the student's control. Exception is made for freshmen and advanced standing students who may change courses without fee through the first ten days of the first semester.

(a) Requests for these changes should be filed in the Office of the Class Deans.

(b) If changes on the course cards are made necessary by reason of carelessness on the part of the student a fee of two dollars is charged.

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(c) Permission to drop hours of work carried above the minimum will not be granted after November 15 for the first semester and after April 3 for the second semester.

5. A student is not allowed to attend a class either as an occasional or a regular auditor except with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1960-1961

Key to Symbols and Abbreviations

Courses are arranged in five grades indicated by the first digit in the course number. Those of Grade I are primarily for freshmen, those of Grade II for sophomores. Courses of Grade III are for juniors and seniors but are also open to sophomores when a statement to that effect is included in the description. Grade IV courses are for seniors, honors students, or qualified juniors. Grade V courses are for graduate students.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester.

Where no letter follows the number of the course, the course runs through the year.

Unless otherwise indicated, all year courses carry credit of six hours; all semester courses, three hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes. Where scheduled hours are not given for courses or for laboratory work, the times of meeting are arranged after elections are made.

[] Courses in brackets will be omitted for the year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; rec., recitation; sect., section; dis., discussion.

An "L" in parentheses at the close of the description of a course in the literature departments indicates that it may be taken to fulfill the foreign literature requirement.

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester: || with the juniors in France; ‡with the juniors in Spain; § with the juniors in Geneva; | with the juniors in Italy; ¹appointed for the first semester; ² appointed for the second semester.

INTERDEPARTMENTAL COURSES

SOCIAL SCIENCE 192. *Modern American Society.* Problems in and interpretations of American society, including such topics as: industrialism, class structure, race relations, "national character," the competitive market and its fluctuations, and the sources of party and governmental conflict, stability, and change. Materials and methods of economics, sociology, and political science are employed. Open to a limited number of freshmen and sophomores. Lec. M 11; dis. T W 11, 2. Mr Kenneth Olson, (*Director*), Mr Haymes, Mr Brotz. (Group E)

PHYSICAL SCIENCE 193. *The World of Atoms.* A course in physical principles with the two-fold purpose of conveying the contemporary picture of nuclear, atomic, and molecular structure and developing an understanding of the methods of physical science. Chemical and physical ideas are discussed in relation to each other and developed quantitatively. The historical growth of scientific concepts is traced from the Greeks to the present. Lec. Th F S 9, dis. W 10, 12. Mr Josephs (*Director*), Mr Sherk. (Division III)

BIOLOGICAL SCIENCE 195. *The Living World.* Life as exhibited in the form, function, inheritance, and evolution of living organisms with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have presented a unit in biology for entrance. Lecture, three hours; laboratory, two hours. Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1. Mr Ernest Driver and Miss Kemp (*Codirectors*), Mrs Driver. (Division III)

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy.* For sophomores and juniors, or by permission. Lec. W 2. Section meetings M T W 10, 11, 12, 2; W Th F 2, 3; Th F S 9, 10, 11. Mr Guilloton (*Director*), Miss Muchnic, Mr Fisher, Miss Lincoln, Mr Petersson, Mrs McKay, Mr Johnson, Mr Connelly, Mr Ellis, Mr L. Dabney. (Group A)

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions.* A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Th F S 10. Miss Kenyon, Mr Mann.

HISTORY AND SOCIAL SCIENCE 294b. *Contemporary India and Its Role in Asia.* This course will focus on the political, economic, and social developments in India since 1947. Th F S 11. Mr Edwin Driver.

HISTORY AND SOCIAL SCIENCE 295a. *Africa South of the Sahara.* An introductory study of recent political, economic, and social developments. M T W 9. Miss Carter.

INTERDEPARTMENTAL COURSES

HISTORY OF SCIENCE 298a. *Modern Scientific Thought*. An introductory study of some fundamental concepts and methods in the mathematical, physical and biological sciences. The forerunners of modern science. Crucial stages in the rise of modern science. The experimental method; matter and energy; scientific cosmology. Prerequisite, completion of the distribution requirement in Division III. M T W 10. Mr Yourgrau.

HISTORY OF SCIENCE 298b. *History of Scientific Thought from Antiquity to Galileo*. The development of fundamental concepts and methods in the mathematical, physical and biological sciences. The Greeks; Scholasticism; the forerunners of modern science. M T W 10. Mr Yourgrau.

SOCIAL SCIENCE 492b. *Social Institutions of the Contemporary Middle East*. To be given by members of the staff of the Middle East Institute of Harvard University for the one semester only. Open by permission to a limited number of students with priority given to those who have done work in the Middle East or advanced work in relevant social sciences.

[HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493. *Soviet Russia*. A study of political, economic, social, and cultural life in the Soviet Union. Open to juniors by permission of the director.]

HISTORY OF SCIENCE 498a (*seminar*). An intensive study of two or three concepts in modern science, the selection of topics to be determined by the interests and background of the individual students. Open only to qualified juniors and seniors who are majoring in mathematics or science or who have unusual background in at least one scientific field. Mr Yourgrau.

ART

PROFESSORS:	OLIVER WATERMAN LARKIN, A.M. HENRY-RUSSELL HITCHCOCK, A.M., <i>Chairman</i> *PHYLLIS WILLIAMS LEHMANN, PH.D. ROBERT OWEN PARKS, B.F.A. *RUTH WEDGWOOD KENNEDY, A.B. PRISCILLA PAINE VAN DER POEL, A.M.
ASSOCIATE PROFESSORS:	**MERVIN JULES GEORGE COHEN CHARLES WHITMAN MACSHERRY, PH.D. LEONARD BASKIN, B.A. JAMES HOLDERBAUM, A.M.
ASSISTANT PROFESSORS:	†JAY RICHARD JUDSON, PH.D. ROBERT MARK HARRIS, PH.D.
VISITING LECTURER:	HAMISH ALEXANDER DRUMMOND MILES, M.A.
INSTRUCTORS:	DAVID CAREW HUNTINGTON, M.A. †CAROLYN FRENCH JUDSON, A.M. PETER GARLAND, B. ARCH. ANABELL THORNTON HARRIS, M.A. ELLIOT MELVILLE OFFNER, M.F.A. KATHERINE H. MEAD, M.A.
ASSISTANT:	PATRICIA A. MILNE HENDERSON, M.A.

The courses in art which may be taken to fulfill the distribution requirement in Group B are 11, 31a, 31b, 35, 13.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 11 and 27 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 11 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of the department, followed by discussions in small groups. W Th F 3; dis. M 2; T 10, 11, 2; Th 10, 11, 2; F 10, 11, 12, 4; S 11, 12. Members of the Department. Mr Harris (*Director*).

ART

- [31a *The Art of Greece.* Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. Open to sophomores. M T W 11. Mrs Lehmann.]
- 31b *The Art of Rome.* Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Open to sophomores. Prerequisite, 31a or permission of the instructor. M T W 11. Mrs Lehmann.
- 33a *Early Mediaeval Art.* Architecture, sculpture, illuminated manuscripts, and painting from Constantine to the eleventh century with emphasis on the early Christian, post-Justinianic, Carolingian, and Middle Byzantine periods. Open to sophomores. Recommended background, Art 11 or History 11. Th F S 11. Mr Harris.
- 33b *Romanesque and Gothic Art.* Architecture, sculpture, illuminated manuscripts, and painting from the eleventh to the fifteenth centuries with emphasis on France, Germany, and England. Open to sophomores. Recommended background, 11, 33a, or History 11. Th F S 11. Mr Harris.
- 34a *Northern Art.* Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 10. Mr Miles.
- 35 *Italian Art during the later Middle Ages and the Renaissance.* The history of Italian painting, sculpture, and architecture from the later thirteenth through the sixteenth centuries. Th F S 10. Mr Holderbaum.
- [37a *Botticelli and the Circle of Lorenzo de' Medici.* Open to sophomores. M 4; T 4-5:30. Mrs Kennedy.]
- 37b *Michelangelo.* Open to sophomores. M 4; T 4-5:30. Mrs Kennedy.
- [38a *Dutch and Flemish Art of the Seventeenth Century.* With emphasis upon painting and drawing. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 10. Mr Judson.]
- 39b *Seventeenth-Century Architecture.* The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England; the beginnings of Colonial architecture in America. Open to sophomores. Recommended background, 11 or 35. M T W 3. Mr Hitchcock.
- 311a *The Art of the Seventeenth Century in Italy, France, and Spain.* Emphasis is on the origin and evolution of pictorial traditions. Lectures and field trips. To be given in 1960-61. Open to sophomores. Recommended background, 11 or 35. W Th F 2. Mr Parks.

- 311b *Art of the Eighteenth Century.* European painting, sculpture, and architecture from the Baroque to the Romantic. Open to sophomores. Recommended background, 11. M T W 12. Mr Huntington.
- 313a *The Arts in America.* The colonial period through the years of the expanding republic, with emphasis on painting. Recommended background, 11 or a course in American history. Th F S 12. Mr Larkin.
- 313b *The Arts in America.* The Civil War to the present, with emphasis on painting. Recommended background, 11 or a course in American history. Th F S 12. Mr Larkin.
- 315 *Modern Art.* Contemporary art and its backgrounds from Jacques Louis David and the French Revolution to the present. Open to sophomores by permission of the instructor. Open also for a single semester to students who have had a course abroad in nineteenth- or twentieth-century art. Recommended background, 11. M T W 10. Mrs Van der Poel.
- 316a *Oriental Art.* The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Open to sophomores. M T W 9. Mr MacSherry.
- 316b *Oriental Art.* The art of Japan, especially the painting, sculpture, architecture, and color prints. Particular attention is given to the roles of native tradition and foreign influences in the development of Japanese art. Open to sophomores. M T W 9. Mr MacSherry.
- 322a *Decorative Styles.* A survey of European and American thought and taste as expressed in interior design, furniture, and textiles from the mediaeval period to the present. Open to sophomores. M T W 12. Mrs Van der Poel.
- [326b *American Colonial Architecture and Its English Background.* Late Mediaeval, Stuart, and Georgian building. Recommended background, 11 or 239. Open to sophomores. M T W 3. Mr Hitchcock.]
- 327 *Modern Architecture and Its Immediate Background.* Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the so-called "International Style." Recommended background, 11 or 239. Open to sophomores. M T W 2. Mr Hitchcock.
- 351 *Florentine Art 1420-1520.* An intensive four weeks' study of the original monuments of architecture, sculpture, drawing and painting, still in place in Florence, followed by a two weeks' study tour of the Italian cities where works by artists of this period who were in the Florentine orbit are to be found. Six hours. Given in the summer of 1960. Mr and Mrs Kennedy.

ART

40b Members of the Department. Mr Larkin (*Director*).

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours of art above Grade I. *Two or three hours.*

SEMINARS

All seminars are open to juniors and seniors by permission of the instructor unless otherwise indicated.

42a *Criticism of Art*. Principles and practice of analyzing, interpreting, and judging works of art. Open only to senior art majors. Th 7:30. Mr Larkin.

[42b *American Painting in the Age of Jackson*. Th 7:30. Mr Larkin.]

[43a *Studies in Greek Sculpture*. Alternates with 44b. T 3-5:30. Mrs Lehmann.]

44b *The Antique and the Italian Renaissance*. The survival and rediscovery of ancient works of art and their influence on such Italian Renaissance artists as Alberti, Mantegna, Raphael, Michelangelo, Titian, Palladio. Alternates with 43a. Th 3-5:30. Mrs Kennedy and Mrs Lehmann.

45a *Studies in Renaissance Art*. Th 3-5:30. Mr Holderbaum.

[46a *The Renaissance in Italy and Its Reflection in Art*. Open to junior and senior majors in art and history. Th 3-5:30. Miss Gabel and Mrs Kennedy.]

[47a *English Art: 1700-1850*. T 7:30. Mr Huntington.]

48b *Nineteenth- and Twentieth-Century Painting*. T 4-6. Mrs Van der Poel.

[49a *Problems in Seventeenth-Century Art in Italy, France, and Spain*. Given in alternate years. W 7:30. Mr Parks.]

49b *Studies in Northern Painting*. Th 7:30. Mr Miles.

413b *Studies in Mediaeval Art*. T 7:30-10. Mr Harris.

414a *American Landscape and Myth*. The problem of landscape painting as an expression of cultural myth in nineteenth-century America with special emphasis upon Frederic Edwin Church. T 7:30. Mr Huntington.

[426a *Sources of Modern Architecture in the Nineteenth Century*. Alternates with 427a. M 7:30. Mr Hitchcock.]

427a *Architecture Since 1890*. The problem of style in modern architecture. Alternates with 426a. M 7:30. Mr Hitchcock.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced Studies. *One hour or more.*

55, 55a, 55b *Art of the Italian Renaissance.* Mr Holderbaum, Mrs Kennedy.

57a, 57b *Modern Art.*

For further information about graduate work in art, application should be made to the Chairman of the Department. Adviser of graduate study: Mr Hitchcock, first semester; Mrs Kennedy, second semester.

B. Studio Courses

A fee is charged for materials in 13, 239, 312a and b, 335a and b, 336a and b, 339, 341, 342a.

- 13 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts, through studio practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 10-12, 2-4; Th F 10-12. Mr Jules and Mr Cohen (*Directors*).
- 210a *Intermediate Painting.* Experimentation with color and the techniques and expressive possibilities of various painting media. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 210b *Drawing and Pictorial Organization.* Analysis of form in line and tone; and projects in composition, using various techniques of drawing. Prerequisite, 13 or permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Baskin.
- 239 *Introduction to Architecture and Landscape.* Preliminary instruction in drafting, perspective, and lettering, followed by planning and designing in both fields. Th F 2-5. Mr Garland.
- 312a *Sculpture.* Methods of stone carving. Open to sophomores by permission of the instructor. Prerequisite, 13. Nine studio hours of which six must be M T W 10-12. Mr Baskin.

ART

- [312b *Sculpture*. Work in stone carving; methods of wood carving. Open to sophomores by permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Baskin.]
- 331a *Advanced Painting*. Problems in pictorial organization with emphasis on oil painting. Prerequisite, 210a or 335a. Nine studio hours of which six must be Th F 2-5. Mr Jules.
- 331b *Advanced Painting*. Individual expression in painting, using various media. Open by permission of the instructor. M T 2-5. Mr Cohen.
- 335a *Design Workshop*. Studio projects in two-dimensional visual problems using color, layout, letter forms, typography, and related design elements. Open to sophomores. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Offner.
- [335b *Design Workshop*. Continuation of 335a with specialized individual projects. Open to sophomores. Prerequisite, 13, 335a or permission of the instructor. Nine studio hours of which six must be M T 2-5.]
- 336a *Graphic Arts*. Methods of print-making. Open to sophomores. Prerequisite, 13. Nine hours of which six must be M T 2-5. Mr Baskin.
- 336b *Graphic Arts*. Continuation of 336a. Open to sophomores. Prerequisite, 336a or permission of the instructor. Nine hours of which six must be M T 2-5. Mr Baskin.
- 339 *Architecture*. Further problems in planning and design together with instruction in elementary construction. Prerequisite, 239. Th F 11-1. Mr Garland.
- 341 *Landscape Architecture*. Advanced problems in landscape design. Prerequisite, 239. Th F 11-1. Mr Garland.
- [342a *The Art of Photography*.]
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in art. *Two or three hours*.
- 510 *Architecture*.
- 512 *Landscape Architecture*.
- 513a, 513b *Painting, Sculpture, Design, or Graphic Arts*. Members of the Department.

THE MAJOR

Advisers: Mr Larkin, Mrs Kennedy, Mr Parks, Mrs Van der Poel, Mr Jules, Mr Cohen, Mr Garland.

ASTRONOMY

Based on 11 or 13. If the major is based on 13, 11 must also be taken.

Essential Courses: 40b and eighteen semester hours in art of which at least nine must be from Division A.

Optional Courses: other courses in art; Philosophy 33; Education 411a; closely related courses in other fields.

HONORS

Director: Mr Harris, first semester; Mrs Lehmann, second semester.

Prerequisite: 11.

Program: an arrangement, approved by the director, of courses and seminars (or special studies) in art and related fields in preparation for general examinations.

In the senior year the candidate will present a long paper for the first semester and spend three hours in a review unit during the second term.

Examinations: one general examination; one based on specific fields; one testing the candidate's ability to analyze and interpret original works of art.

ASTRONOMY

ASSISTANT PROFESSOR:

EDWARD COOPER OLSON, B.S.

VISITING LECTURERS:

ROBERT FRANKLIN HOWARD, PH.D. (Assistant Professor, University of Massachusetts)

ROBERT HARRY KOCH, PH.D., (Assistant Professor, Amherst College)

ALBERT PAUL LINNELL, PH.D., *Chairman* (Associate Professor, Amherst College)

KENNETH MYRON YOSS, PH.D. (Associate Professor, Mount Holyoke College)

TEACHING FELLOW:

VIRGINIA STEVENS, A.B.

Courses designated FC (Four College) are taught jointly with Amherst College, Mount Holyoke College, and the University of Massachusetts. The astronomy resources of all four institutions are available for student use. In special cases, research and thesis materials may be obtained from other major observatories.

Astronomy 11 may be elected to fulfill the distribution requirement in Division III. A student interested in an astronomy major should consult with the Department as early in her college career as possible.

Astronomy 11 is a prerequisite for all FC courses except FC 41a and FC 42b. Physics 11 or 15 is a prerequisite for all FC courses except FC 24b.

ASTRONOMY

- 11 *Introduction to Astronomy.* The development of the modern concepts of the motions and physical characteristics of the members of the solar and stellar systems will be traced from the past to the present time. General principles rather than details will be stressed. Observations of the constellations and individual objects. Lectures and discussion, three hours, Th F S 10; laboratory, two hours, and observing, W Th 8-10. Mr Olson.
- 21b *Descriptive Astronomy.* Designed to give a general knowledge of the field. Opportunity for learning the constellations and for using the telescopes. For students who have not taken 11. T 7-9, W 2. Occasional observing Th 7-8. Mr Olson.
- FC 24b *Development of Astronomy.* The progress of astronomy through the work of great men. The development of important ideas in the field from ancient to modern times. Grade II. M W 1:45-3:00, University of Massachusetts. Mr Howard.
- FC 31a *Statistical Astronomy.* Stellar motions as derived from trigonometric, spectroscopic, and statistical parallaxes, proper motions and radial velocities. Stellar luminosity functions, and related topics. For students who have had or are taking Mathematics 12 or 13. Grade II. M W 3:30-4:45, Mount Holyoke College. Mr Yoss.
- FC 32b *Galactic Structure.* Properties of the galactic system revealed by star clusters, the general distribution of stellar types, and the interstellar medium. Kinematics and dynamics of galactic motion. Recent results from the field of radio astronomy. For students who have had or are taking Mathematics 12 or 13. Grade III. M W 3:30-4:45, Mount Holyoke College. Mr Yoss.
- FC 33a *Celestial Mechanics.* Development of the two body problem and the restricted three body problem as applied to the solar system and stellar systems. For students who have had or are taking Mathematics 12 or 13. Grade III. M W 1:45-3:00, Amherst College. Mr Koch.
- FC 34b *Double Stars.* Analysis of the orbits of double stars and discussion of their physical characteristics. For students who have had or are taking Mathematics 12 or 13. Grade III. M W 1:45-3:00, Smith College. Mr Koch.
- FC 39a *Laboratory Astronomy.* Study and development of observing procedures. Analysis of astronomical observations. One classroom hour, four laboratory hours per week. For students who have had or are taking Mathematics 12 or 13. Grade IV. T 1:45-4:45, Th 7:30-9:30, Amherst College. Mr Olson.
- FC 41a *Astrophysics I.* Introduction to the theory of atomic spectra as applied to the analysis of stellar atmospheres. Transfer of radiation, determination of temperatures, pressures, and abundances. For students who have had or are

BACTERIOLOGY AND PUBLIC HEALTH

taking Mathematics 21a or 22a. Grade IV. T Th 1:45-3:00, University of Massachusetts. Mr Howard.

FC 42b *Astrophysics II*. Gas laws and nuclear reactions as applied to the structure of stellar interiors. Evolution of stars. For students who have had or are taking Mathematics 21b or 22b. Grade IV. T Th 1:45-3:00, Amherst College, Mr Linnell.

40b Synoptic Course designed to correlate the work in the major field.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in astronomy. *Two or three hours.*

50, 50a, 50b Research and Thesis. An individual research project approved by the Department. Prerequisite, consent of the Department. *Three or six hours.*

THE MAJOR

Adviser: Mr Olson.

Based on 11.

Essential Courses: FC 31, FC 32; Physics 11, Mathematics 21a, 21b, and at least nine additional hours in Astronomy and six additional hours in related sciences or Mathematics.

HONORS

Director: Mr Olson.

Prerequisites: 11, Physics 11, Mathematics 21a, 21b, or equivalent.

Essential Courses: FC 31, FC 32, FC 33, FC 39, and at least six additional hours in Physics and six additional hours in Mathematics.

During her senior year, the honors candidate will prepare a thesis on a topic approved by the Department, on which there will be an oral examination. In addition, there will be two written examinations, one in the general area of astrophysics, the other in galactic and extragalactic studies.

BACTERIOLOGY AND PUBLIC HEALTH

PROFESSOR:	ELINOR VAN DORN SMITH, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	ELIZABETH DOROTHY ROBINTON, PH.D.
INSTRUCTOR:	ELIZABETH ANN TYRRELL, M.S.
TEACHING FELLOW:	MARILYN JOYCE BROTHERS, B.S.

BACTERIOLOGY

Students planning to major in Bacteriology are advised to take Chemistry 11 or 12 and a course in Bacteriology or Zoology before the junior year.

BACTERIOLOGY AND PUBLIC HEALTH

- 22 *General Bacteriology*. A systematic study of representative groups of bacteria with emphasis on their relation to domestic, economic, and public health problems. Prerequisite, Chemistry 11 or 12. Two lectures and two two-hour laboratory periods. Lec. M T 10; lab. M W 2. Miss Tyrrell.
- [27a *General Microbiology*. Outline of the biological relationships of microorganisms to higher forms of life and the interrelationships among microorganisms. Lectures and demonstrations. M T W 12. Miss Smith.]
- 27b *Microorganisms of Importance to Man*. A study of microbial activities in relation to the life of the individual and the community. Lectures and demonstrations. M T W 12. Miss Smith.
- 34 *Advanced Bacteriology and Serology*. Basic theories and applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisite, 22. One lecture and five hours of laboratory. Lec. Th 2; lab. Th 3-5, F 2-5. Miss Smith.
- 40b *Microbiology and Serology in the Twentieth Century*. Readings and discussion. Miss Smith, Miss Robinton.
- 41, 41a, 41b Special Studies in bacteriology and serology. By permission of the Department for senior majors who have had twelve semester hours in essential courses in the major above Grade I. *Two, three or six hours.*
- 42b *Pathogenic Fungi and Antibiotics*. Systematic studies of the higher bacteria and fungi of medical importance. Prerequisites, 22 and first semester of 34. Two lectures and two two-hour laboratory periods. Miss Robinton, Miss Tyrrell.
- 43a *Seminar in Backgrounds of Microbiology*. A survey of the discoveries and developments in scientific thinking which culminated in the science of bacteriology. Prerequisite, 22. Miss Robinton.
- 44b *Journal Seminar*. A study of source materials including current periodicals in bacteriology and immunology. By permission of the instructor for students who have passed or are taking 34. *One hour.* Miss Smith.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced Studies. *One hour or more.*
- 55a, 55b *Problems in Bacteriology and Serology*. *Two hours or more.* Miss Smith.
- 56b *Problems in Pathogenic Fungi and Antibiotics*. *Two hours or more.* Miss Robinton.

PUBLIC HEALTH

- [21b *Environmental Sanitation*. A study of air, water, and food in relation to man and his environment and the development of public health practices for their control. M T W 9. Miss Robinton.]

BOTANY

32a *Concepts of Public Health.* A study of the development of the modern public health movement from the "sanitary awakening" of the nineteenth century to the present day. Emphasis will be placed on the basic ideas and activities of official and non-official organizations. M T W 9. Miss Robinton.

45b *Health Education* (seminar). Problems in the dissemination of accurate health information to the individual and the community. Miss Robinton.

Adviser of graduate study: Miss Robinton.

INTERDEPARTMENTAL MAJOR IN BACTERIOLOGY

Adviser to the major: Miss Smith.

Essential Courses: Chemistry 11 or 12, 21, 31a; Bacteriology 22, 34, 40b; Zoology 12 or 22.

Optional Courses: courses in chemistry, bacteriology, botany, physics, zoology, or mathematics approved by the adviser.

HONORS

Director: Miss Smith.

Prerequisites, normally taken before junior year: Bacteriology 22; Chemistry 21; Zoology 12 or 22.

Program:

Requirements: Bacteriology 34, 43a; Chemistry 31a; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, zoology, bacteriology, botany, physics, or mathematics approved by the director.

Examinations: one in chemistry, one in bacteriology, one selected according to the student's program.

BOTANY

ASSOCIATE PROFESSORS:	MARGARET KEMP, PH.D. KENNETH E. WRIGHT, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	DAVID ANDREW HASKELL, PH.D.
INSTRUCTOR:	ROBINSON SHEWELL ABBOTT, PH.D.
HORTICULTURIST:	WILLIAM I. P. CAMPBELL

Among the courses which may be taken to fulfill the distribution requirement in Division III are Botany 11 and Biological Science 195.

Students planning to major in botany are advised to have a knowledge of general zoology or chemistry. See the honors program for additional preparation required.

BOTANY

Unless otherwise stated the prerequisite for all courses above Grade I is 11, Biological Science 195, or permission of the instructor.

Sophomores may elect Grade III courses with the permission of the instructor.

- 11 *General Botany.* A study of the life processes and structure of seed plants with emphasis upon their relationship to the needs of man. A survey of representative types of other green and nongreen plants; reproduction, heredity, evolution. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Mr Haskell, Mr Abbott.
- [22a *Economic Botany.* Plants useful to man as a source of food, spices, beverages, drugs, shelter, fuel, textiles, and the raw materials of many industries. Two lectures and one two-hour laboratory period. Th F 9-11. Miss Kemp.]
- 27 *Horticulture.* Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Two lectures and two two-hour laboratory periods. Th F 10-1. Mr Campbell.
- 31a *Comparative Morphology of Lower Vascular Plants.* The vegetative and reproductive structures and evolutionary development of living and extinct ferns and fern allies, preceded by a brief study of liverworts and mosses. Offered in alternate years. Two lectures and four hours of laboratory. M T 2-5. Mr Haskell.
- 31b *Comparative Morphology of Higher Vascular Plants.* The vegetative and reproductive structures and evolutionary development of the Gymnosperms and Angiosperms. Two lectures and four hours of laboratory. M T 2-5. Mr Haskell.
- [32a *Microtechnique.* Methods used in the preparation of various plant materials for microscopic study. Offered in alternate years. Six hours of laboratory. M T 2-5. Mr Haskell.]
- 33a *Plant Breeding.* The principles and problems of inheritance in plants and the methods by which man obtains new varieties. Offered in alternate years. M T W 10. Mr Wright.
- [33b *Plant Geography.* Climate and climatic plant formations of the world. Problems of distribution in relation to migration and barriers. Two lectures and one discussion. M T W 10.]
- [35 *Plant Physiology.* A study of plant processes and functions. Offered in alternate years. Two lectures and two two-hour laboratory periods. M T W 11-1. Mr Wright.]
- 36a *Plant Taxonomy.* A study of ferns and flowering plants with special emphasis on the Northampton region. Principles of classification. Field trips in the

BOTANY

fall. One lecture and five hours of laboratory or field work. Th F 2-5. Mr Abbott.

36b *Plant Ecology*. A study of plant communities, particularly as exemplified by local vegetation. Prerequisite, Botany 36a, or permission of the instructor. Field trips in the spring, including one of two days. Two hours of lecture and four hours of laboratory or field work. Th F 2-5. Mr Abbott.

40a A paper correlating material from several fields of Botany. Members of the Department.

41, 41a, 41b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology, phycology. By permission of the Department for senior majors who have had twelve semester hours in botany above Grade I. *Two or three hours*.

50, 50a, 50b Research and Thesis. *Three or six hours*.

51, 51a, 51b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology, phycology, arranged in consultation with the adviser of graduate study. *One hour or more*. Members of the Department.

52a, 52b Selected problems in a specific field of botany assigned for investigation, experimental work, and discussion. *One hour or more*.

56a, 56b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. *One hour*. Members of the Department.

Adviser of graduate study: Mr Wright.

THE MAJOR

Adviser: Mr Wright.

Based on 11 or Biological Science 195.

Essential Courses: 40a and eighteen hours in botany of which at least twelve must be above Grade II.

Optional Courses: other courses in botany above Grade I; courses in bacteriology, chemistry, geology, physics, and zoology.

HONORS

Director: Miss Kemp.

Prerequisites: 11; Chemistry (one year in preparatory school or college).

Program:

Requirements: 36a (taken before junior year if possible); 31a, 31b, 35; six hours of Grade IV or V in botany, involving a problem and a paper; three hours of directed reading and review.

Optional: courses approved by the director.

Examinations: a general examination covering major fields of botany; one in identification and interpretation of materials and in application of techniques; one in the special field of the candidate.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	STEPHEN JULIUS TAUBER, PH.D.
INSTRUCTOR:	PHILOMENA GLORIA GRODZKA, M.S.
ASSISTANTS:	OYA KORMAN, A.M. ELEANOR BERMAN ROTHMAN, A.B. ROBERT COOPER BYRNE, JR., B.S.
TEACHING FELLOWS:	DEMET HATICE DINCER, A.B. GÜNİZ EMINE GÜNAY, B.S.
RESEARCH FELLOWS:	MARGIE DEBRA BURT, B.A. MEI-SHU HO, B.S. ROBERTA MARSHA KURTZ, M.S.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Chemistry 11, 12, and Physical Science 193.

Students who are planning to major in chemistry should elect 11 or 12 in freshman year. They are advised to complete Mathematics 12 or 13 the first year.

- 11 *General Chemistry.* A basic course with emphasis on the relationships of the properties of matter to atomic and molecular structure. The development of ideas and principles is stressed. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M Th 2-5. Mr. Durham.
- 12 *Principles of Chemistry.* An intermediate course centered on the study of basic concepts and their relations to the behavior of the more common elements and compounds. In the second semester the principles of equilibrium are applied to inorganic qualitative analysis. This course is designed for students who are especially interested in chemistry as a basis for further study in science and who offered a unit of chemistry for entrance. Two lectures, one discussion, and one three-hour laboratory. Lec. Th F S 10; lab. M T F 2-5. Mr. Sherk.
- 12b The second semester of 12 for majors who have taken 11.
- 21 *Organic Chemistry.* A systematic study of aliphatic and aromatic reactions. The fundamental course for all majors in sciences requiring organic chemistry. Prerequisite, 11 or 12. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M T Th 2-5. Mr. Soffer, Mr. Tauber.

CHEMISTRY

- 31a *Quantitative Analysis.* Standard volumetric and gravimetric methods of analysis. Recommended background, 12b. Lecture, discussion, and five laboratory hours. Lec. and dis. Th F 12; lab. Th 2-5, F 2-4. Miss Grodzka.
- 32 *Physical Chemistry.* Theoretical chemistry, including the properties of matter in various states, thermodynamics, equilibrium, kinetics and electrochemistry. For students who are taking or have had 31a. Prerequisites, Mathematics 12 and Physics 11, or by permission of the instructor. Two lectures, discussion, and one three-hour laboratory period. Lec. and dis. M T W 9; lab. T 2-5, Mr Durham.
- 33b *Organic Qualitative Analysis.* The separation, characterization, and identification of organic substances; theory and practice. Prerequisite, 21. One lecture and two three-hour laboratory periods. Lec. hour to be arranged; lab. Th F 2-5. Mr Tauber.
- 40b *Integrating Paper.* Members of the Department.
- 41, 41a, 41b *Special Studies.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in Chemistry. *Two or three hours.*
- [42a *Biochemistry.* Selected topics of current biochemical interest. Prerequisite, 21. Two lectures and one three-hour laboratory period. Lec. Th F 10; lab. to be arranged.]
- 44a *Advanced Inorganic Chemistry.* Selected topics with emphasis on structural considerations. Laboratory practice in procedures of inorganic synthesis. Prerequisite, twelve hours of chemistry. Three lectures and one three-hour laboratory period. Lec. Th F 11 and one hour to be arranged; lab. M 2-5. Mr Sherk.
- 45b *Instrumental Methods.* A theoretical and practical study of the applications of various optical and electrical instruments to problems of analysis and structure. Prerequisite, 31a. One lecture and six hours of laboratory. Miss Grodzka.
- 46b *Physical Organic Chemistry.* The relationship of molecular structure to chemical properties, with emphasis on organic reaction mechanisms. Prerequisites, 21, 32, or permission of the instructor. Three hours of lecture. Mr Tauber.
- 47a *Organic Techniques.* A study of laboratory procedures used in organic preparations and research. Prerequisite, 21. One lecture and six hours of laboratory. Hours to be arranged. Mr Tauber.

CHEMISTRY

Graduate Courses

These courses are open to seniors by permission of the Department. It is suggested that a student majoring in chemistry take at least one graduate course.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special Studies. (1) Advanced Organic Preparations; (2) Quantum Chemistry; (3) Contemporary Literature; (4) Heterocyclic Natural Products; (5) Theory of Solutions; (6) Electrochemistry; (7) Organic Reaction Mechanisms. *One hour or more.*

55a *Advanced Physical Chemistry.* A treatment of selected topics including quantum chemistry, and statistical chemical thermodynamics. Prerequisite, 32 or its equivalent. Miss Grodzka.

55b *Advanced Physical Chemistry.* Kinetics. Prerequisite, 32 or its equivalent.

58a *Organic Reactions.* An integrative review of organic reactions, with the discussion of selected theoretical aspects. Mr Tauber.

59b *Carbocyclic Natural Products.* The chemistry of terpenic and steroid substances, with particular emphasis upon methods of structural investigation and synthesis. Mr Soffer.

Adviser of graduate study: Mr Soffer.

THE MAJOR

Advisers: Members of the Department.

Based on 21. Students who have taken 11 must also take the second half of 12 before their senior year.

Essential Courses: 31a, 32, 40b, and six additional semester hours in chemistry. Six semester hours in physics. In the senior year at least twelve semester hours must be taken in the Department.

Recommended Courses: Mathematics 21a or 22a, German 11.

Optional Courses: courses in chemistry above Grade II, Geology 324a, Bacteriology 22, 34; Zoology 32a, and 32b; courses in mathematics and physics with the approval of the adviser.

The program recommended above meets the requirements of the American Chemical Society for eligibility for professional standing.

CLASSICAL LANGUAGES & LITERATURES

HONORS

Director: Mr Durham.

Prerequisite: 21. Students who have taken 11 must also take the second half of 12 before their senior year.

Program:

Essential Courses: 31a, 32, the Honors Unit, and six additional semester hours in chemistry. Six semester hours in physics and Mathematics 12 or 13 are required unless taken previously. Mathematics 21a or 22a and German 11 are recommended. The Honors Unit consists of three semester hours each semester of the senior year to be spent on an individual problem, paper, and review.

Examinations: one in inorganic chemistry and qualitative analysis; one in organic chemistry and related subjects; one in physical chemistry and quantitative analysis.

CLASSICAL LANGUAGES AND LITERATURES

VISITING PROFESSOR:	LOUISE ADAMS HOLLAND, PH.D.
ASSOCIATE PROFESSORS:	†GEORGE EDWARD DIMOCK, JR., PH.D. HELEN H. BACON, PH.D., <i>Chairman</i>
VISITING LECTURER:	C. JOHN HERINGTON, M.A.
INSTRUCTORS:	†EDWARD WASHBURN SPOFFORD, A.M. JEAN PEARSON, A.M.

The courses in the Department which may be taken to fulfill the distribution requirement in Group A are Greek 12a and b, 21a, 22b, 23a, 24b, Latin 14a and b, or six hours chosen from Classics 18a, 18b, 27a, 29b.

Students planning to major in classics are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

A major in Greek or in Latin may be arranged on consultation with the chairman.

GREEK

The prerequisite for courses of Grade III is 22b or 24b, or permission of the instructor.

- 11 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. *Three hours each semester.* M T W Th F 9. Miss Bacon.
- 12a *Plato: Selected Dialogues.* Prerequisite, two units in Greek or 11. W Th F 2. Miss Pearson. (L)
- 12b *Homer.* Prerequisite, 12a or permission of the instructor. W Th F 2. Mr Herington. (L)

CLASSICAL LANGUAGES & LITERATURES

- 16 *Prose Composition.* Prerequisite, two units in Greek or 11. *One hour each semester.* Mr Herington.
- [21a *The Drama: Euripides and Sophocles.* Prerequisite, 12b or three units in Greek. To be given 1961-62. (L)]
- [22b *Homer, Advanced Course.* Prerequisite, 21a or its equivalent. To be given 1961-62. (L)]
- 23a *Herodotus.* Prerequisite, three units in Greek or 12b. Mr Herington. (L)
- 24b *The Drama: Aeschylus and Aristophanes.* Prerequisite, 23a or its equivalent. Miss Pearson. (L)
- 31a *Greek Historians.* Miss Bacon.
- 32b *Drama, Advanced Course.* Miss Bacon.
- [33a *Selections from Lyric and Pastoral Poets.* To be given 1961-62.]
- [34b *Plato, Advanced Course.* To be given 1961-62.]
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours.*
- [Religion 25a *Greek New Testament.*]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced studies in Greek literature arranged on consultation. *One hour or more.*
- Adviser of graduate study: Miss Bacon.

LATIN

The prerequisite for courses of Grade II is 14b, or permission of the instructor; for courses of Grade III, 22b or 24b, or permission of the instructor.

- 11 *Elementary Course.* Introduction to the language; selections from Latin literature. Five class hours. *Three hours each semester.* T W Th F S 9. Miss Pearson.
- 12a *Poetry of Ovid and Related Prose.* Prerequisite, two units in Latin or 11. Th F S 10. Miss Bacon (L).

CLASSICAL LANGUAGES & LITERATURES

- 12b *Vergil, Aeneid.* Prerequisite, 12a or permission of the instructor. Th F S 10. Miss Pearson. (L)
- 14a *Poetry of Catullus and Related Prose.* Prerequisite, three units in Latin. Th F S 11. Mrs Holland. (L)
- 14b *Vergil, Eclogues; Horace, Odes and Epodes.* Prerequisite, 14a or permission of the instructor. Th F S 11. Mrs Holland. (L)
- [21a *Medieval Latin.* To be given 1961-62.]
- [22b *Roman Elegiac Poetry.* To be given 1961-62.]
- 23a *Latin Historians.* Miss Pearson.
- 24b *Latin Comedy.* Miss Bacon.
- [26 *Prose Composition.* Prerequisite, 14b or permission of the instructor. *One hour each semester.* To be given 1961-62.]
- 33a *Vergil, Advanced Course.* Mrs Holland.
- 34b *Roman Satire.* Mrs Holland.
- [35a *Cicero, Advanced Course.* To be given 1961-62.]
- [36b *Lucretius.* To be given 1961-62.]
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced studies in Latin literature arranged on consultation. *One hour or more.*

Adviser of graduate study: Mrs Holland.

CLASSICS

- 18a *Greek and Roman Epic and Drama in Translation*, including such works as Homer's *Odyssey*, Aeschylus' *Oresteia*, Sophocles' *Antigone* and *Electra*, Euripides' *Alcestitis* and *Medea*, Vergil's *Aeneid*. Th F S 12. Mrs Holland.
- 18b *Greek and Roman Prose and Shorter Verse Forms in Translation*, including such works as Herodotus' *Histories*, dialogues of Plato, selected *Lives* of Plutarch, Greek lyrics, odes of Pindar; Livy's *Ab Urbe Condita*, poems of Catullus, Horace and Ovid. Th F S 12. Mrs Holland.

ECONOMICS

- 27a *Classical Romance, Pastoral, and Satire*, including such works as Longus' *Daphnis and Chloe*, Petronius' *Satyricon*, Apuleius' *Golden Ass*, Vergil's *Eclogues* and *Georgics*, selected *Lives* of Plutarch. Open to freshmen exempted from English 11. Th F S 12. Mr Herington.
- 29b *Ancient Drama in Translation*, including a number of comedies of Aristophanes, and a large selection from those Greek tragedies not usually read in school and college. Open to freshmen exempted from English 11. Th F S 12. Mr Herington.
- 40b Review Unit. Required of all majors in the Department.

THE MAJOR IN CLASSICS

Adviser: Miss Bacon.

Based on Greek 11 and Latin 14a and b (or, by permission of the adviser, Latin 12b). Essential Courses: Greek 16, Latin 26, Classics 40b, eighteen semester hours chosen from Greek and Latin courses of Grade II or above.

Optional Courses: other courses in Greek; courses in Latin above Grade I; allied courses in other departments.

A major in Greek or in Latin may be arranged on consultation with the chairman.

HONORS

Director: Miss Bacon.

Program: to be arranged with the director.

Examinations: one will test the candidate's ability to read Greek and Latin; one, her general knowledge of Greek and Latin literature and classical culture; and one, her mastery of her field of concentration.

ECONOMICS

PROFESSOR:	DOROTHY CAROLIN BACON, PH.D., <i>Chairman</i>
VISITING LECTURER:	MARSHALL CHAPMAN HOWARD, PH.D.
ASSOCIATE PROFESSORS:	STANLEY CURTIS ROSS, A.B., LL.D.
	ELEANOR MARTHA HADLEY, PH.D.
	GEORGE FISK MAIR, PH.D.
	†KENNETH HALL MCCARTNEY, PH.D.
ASSISTANT PROFESSOR:	HARMON HAYDEN HAYMES, PH.D.
INSTRUCTOR:	HERMES LEMONIAS, A.M.

Among the courses which may be taken to fulfill the distribution requirement in Group E are Economics 21, Social Science 192.

- 21 *The Structure and Functioning of the American Economy.* An introduction to economic principles through the study of economic institutions and problems, including such topics as the production and distribution of goods, the value of money, the level of employment and income, and international trade. Open to freshmen by permission. Lec. W 12. Sect. M T 12, 2; Th F 10, 11. Mr Mair (*Director*) and members of the Department.
- 21b The second semester of 21 for students who have passed Social Science 192. Open also to sophomores who are taking Social Science 192.
- [22a *Basic Economics.* A study of the economic factors that determine how and to what extent the resources and manpower of the country are used to produce goods and services. Open only to students who have passed Social Science 192. M T W 10. Mr Mair.]
- [24a *Principles of Accounting.* The theory of debits and credits. The organization and use of accounting records, the construction and interpretation of balance sheets and statements of revenue and expense, and selected special topics. Th F 11, Th 3-5. Mr Mair.]
- 28a *Basic Statistics.* Tabulation, graphic presentation, averages, measures of dispersion, simple correlation, and sampling. Lec. Th F 2; two laboratory sections, M or F 3-5 and two hours to be arranged. Mr Ross.
- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr Haymes, second semester.
- 214a *Personal Finance and Consumer Economics.* Some bases for economic decisions. and methods of economic response at the individual and family level. For freshmen by permission of the instructor. Not open to students who have taken or are taking Economics 21 or 22a. Lec. Th 9. Sect. M W 9, F S 9. Mr Ross.
- 31a *Advanced General Economics.* The theory of the firm, the household, and the market, and its application to the American economy. Recommended for juniors majoring in the department. Prerequisite, 21, 21b, or 22a. M T W 9, 10. Mr Mair.
- [31b *Advanced General Economics, continued.* Further topics, with particular emphasis on the determination and effects of the level of national income.]

ECONOMICS

- 32a *Labor Problems.* Historical development of unions in the United States; their structure and government; the process, content, and issues in collective bargaining; selected aspects of government regulation of labor relations. Open to sophomores who have passed 21. M T W 9. Mr Lemonias.
- 33b *Economic Theory of Labor.* Analysis of the labor market; the process of wage determination; problems of employment and unemployment; unions and national economic policy. Prerequisite, 21, 21b, or 22a. M T W 9. Mr Lemonias.
- 35 *Money, Banking, and Economic Fluctuations.* American and foreign monetary and financial systems, the foreign exchanges, problems of inflation, depression and levels of economic activity, the changing role of the government. Prerequisite, 21, 21b, or 22a. Th F S 9. Miss Bacon.
- [36a *Public Finance.* Analysis of the economic functions of governments. Purposes and effects of taxation and of government borrowing and spending. Current controversies. Prerequisite, 21, 21b, or 22a. Th F S 10.]
- 38b *Economic Statistics.* Multiple correlation, index numbers, time series, and selected applied topics. Open to sophomores. Prerequisite, 28a. Lec. Th F 2; four laboratory hours, M or Th 3-5 and two hours to be arranged. Mr Ross.
- 39a *Problems in Economic Security.* A critical examination of the American social insurance system. Consideration will be given to the programs in old age and survivors' insurance, public assistance, unemployment compensation, workmen's compensation, rehabilitation, and disability insurance together with proposals for financing medical care. Prerequisite, 21, Social Science 192, or permission of the instructor. M T W 11. Miss Hadley.
- 312b *Business Enterprise.* The organization, financing, and management of business in the United States. Problems and policies. Prerequisite, 21, 21b or 22a. M T W 11. Miss Hadley.
- [313b *Government and Business.* The development of public control of business and agriculture in the United States. Problems of present-day regulation. M T W 11. Miss Hadley.]
- 315a *International Economics.* Postwar international economic problems, their historical and theoretical backgrounds, foreign economic policies of the United States. Prerequisite, 21, 21b, 22a, or, by permission of the instructor, Social Science 192. F 11-1. Miss Bacon.

ECONOMICS

[316b *International Economics, continued*. Further topics, including the application of the theory of international trade and the theory of economic growth to current questions of commercial policy and of economic development. Prerequisite, 315a. Th F S 11.]

319a *Comparative Economics: Modern Industrial Systems*. Basic economic issues in capitalism, socialism, communism, and fascism, and their relationships to political and social problems. Particular attention to the United States, Great Britain, and the U.S.S.R. Prerequisite, 21, 21b, 22a, or permission of the instructor. W 3, Th 4-6. Mr Haymes.

320b *Comparative Economics: Underdeveloped Areas*. A comparative study of the economies of selected underdeveloped countries in their political and social setting. Problems of development. Japan as a unique case of non-Western industrialization. Prerequisite, 21, 21b, 22a, or permission of the instructor; 319a recommended but not required. Th 4-6. Miss Bacon.

324b *Population Problems and Policies*. The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. Open to sophomores by permission of the instructor. M 12, T 4-6. Mr Mair.

40b *Major Economic Issues*. Required of all senior majors. M 7:30-9:30. Mr Ross (*Director*), and members of the Department.

41, 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours in economics above Grade I. *Two or three hours*.

[42a *Problems in Applied Economics* (seminar). By permission of the instructor.]

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology*. Modern Capitalism. Mr Brotz, Miss Hadley, Mr Mallan.

THE MAJOR

Advisers: Members of the Department.

Based on 21, 21b, or 22a.

Essential Courses: 40b and eighteen semester hours in economics above Grade II.

Optional Courses: nine semester hours in economics or appropriate courses in other departments.

EDUCATION & CHILD STUDY

Majors may spend the junior year abroad if they meet the college requirements as stated under the description of the Junior Year Abroad.

HONORS

Director: Miss Bacon.

Prerequisite: 21, 21b, or 22a.

Program: 31a and the unit in *Economic Thought* are essential for honors, and count as six of the required eighteen hours of Grade III work. In addition to the eighteen hours, there is required in the first semester of the senior year a long paper to count as three or six hours, and in the second semester three hours of review.

Examinations: general theory and its applications; questions on individual fields in economics; questions coordinating the field of the major.

Units

[*Topics in Economic Stability and Growth*. Second semester. *Three hours*. Mr Haymes.]
[*Economic Thought*. Selected major figures in the development of economics. Second semester. *Three hours*. Mr Lemonias.]

[*Topics in Money and Banking*. First semester. *Six hours*. Mr Haymes.]

[*Comparative Economic Systems*. Second semester. *Three hours*. Mr Haymes.]

[*Labor Problems*. First semester. *Three hours*. Mr McCartney.]

EDUCATION & CHILD STUDY

PROFESSOR:	CLIFFORD RICHARDSON BRAGDON, A.M., ED.M., <i>Chairman</i>
ASSOCIATE PROFESSORS:	HELEN EVANGELINE REES, ED.D., Director of the Smith College Day School DURA-LOUISE COCKRELL, PH.D., Director of the Elisabeth Morrow Morgan Nursery School
ASSISTANT PROFESSOR:	CHARLES EDWIN PETERSON, JR., A.M.
LECTURERS:	RITA ALBERS JULES JOSEPH CONTINO, A.M. RONALD JEREMIAH DARBY, ED.M. ESTHER LEAH WEIN, ED.M. GEORGE T. PRATT, M.ED., L.H.D.
INSTRUCTOR:	JOY MERRITT UNSWORTH, A.M.

The following are recommended as background courses to students planning to major in education and child study: Biological Science 195, Psychology 11a, 12, 25b, Social Science 192, Sociology 11a, Zoology 11 or 12.

EDUCATION & CHILD STUDY

An opportunity for guidance in reading and study skills is offered to a limited number of students. Hours to be arranged.

Students who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the department as early as possible during their college course.

- 21a *Foundations of Education.* Historical and philosophical background of modern education. M T W 3. Mr Peterson.
- 22a *Educational Psychology.* A study of psychology and human development as they relate to educational goals, the educative process, and personality and adjustment. M T W 12. Mrs Musgrave.
- 22b A repetition of 22a. M T W 12. Mrs Musgrave.
- 23a *Child Psychology.* A study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Prerequisite, Psychology 11a or 12, or Education 22a or b. M T W 9. Mrs Cohen.
- 23b A repetition of 23a. Open to freshmen who have passed Psychology 11a. Th F S 10. Mrs Cohen.
- 24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen who have passed Psychology 11a. Prerequisite, Psychology 11a or 12 or Education 22a or b. M T W 9. Mrs Cohen.
- 31a *The Child in Modern Society.* Place of the child in society: mental hygiene of early childhood; social and educational agencies concerned with child welfare. Directed observations. Open to sophomores by permission of the instructor. Th F 10 and one observation period. Miss Cockrell.
- 32b *Foundations of Secondary Education.* Characteristics of the secondary school pupil; present functions and organization of secondary schools; curriculum. Open to sophomores by permission of the instructor. M T W 2. Mr Bragdon.
- 34a *The Preschool Child.* A study of the growth, development, and guidance of the young child. Systematic observation in nursery school. Recommended background, 21a, 23a or b, or 22a or b. Th F 11 with morning observation periods to be arranged. Miss Cockrell.

EDUCATION & CHILD STUDY

- 34b A repetition of 34a. Th F 10. Miss Cockrell.
- 35a *The Elementary School Child.* A study of the growth, development, and guidance of children of elementary school age in school and at home. Systematic observation in the laboratory school. Recommended background, 21a and 22a or b or 23 a or b. Two class hours and observation. M W 9. Mrs Unsworth.
- 35b A repetition of 35a. M W 11. Mrs Unsworth.
- 36b *American Education.* Evolution of American educational thought and institutions; development of American education related to the growth of the nation. Open to sophomores who have had a course in education. M T W 10. Mr Peterson.
- 37a *Comparative Education.* Influence of national culture upon education; contemporary reform and problems of education in England, France, Italy, Western Germany, and the U.S.S.R.; research on other national systems. Prerequisite, 21a or History 11. Open to sophomores by permission of the instructor. M T W 2. Mr Bragdon.
- [38b *Education and Contemporary Social Philosophy.* An examination of the impact of recent socio-economic changes on higher and secondary education in the United States. M T W 3.]
- 39a *Educational Evaluation and Guidance.* Study of the various means of evaluating learning and teaching; principles of guidance as they affect growth and development throughout the school years. M 4-6 and a laboratory period to be arranged. Mr Peterson.
- 40a Senior Unit, designed to correlate and unify the student's work in her major field. F 4-6. Mr Bragdon and members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in education above Grade I. *Two or three hours.*
- 42b *Advanced Educational Psychology.* Selected problems, reports, and discussion. By permission of the instructor. Recommended background, 22a or b and one course in psychology above Grade I. Miss Rees.
- 43 *Preschool Education.* Procedures and curriculum in the modern nursery school and kindergarten. Two class hours and two periods of participation. Prerequisite, 34a or b and permission of the instructor. *Four hours.* Th 4. Miss Cockrell.

EDUCATION & CHILD STUDY

- [44a *Seminar in Child Psychology*. Selected problems, reports, and discussion. Prerequisite, 23a or b. Mrs Cohen.]
- 45 *Elementary Education*. Procedures and curriculum in the modern elementary school, kindergarten through grade eight. Two class hours and two periods of participation in elementary schools. Prerequisites, 35a or b and permission of the instructor. Four hours. Th 4. Miss Rees, Miss Wein.
- 46 *Secondary Education*. Procedures and curriculum in secondary schools. Two class hours and one period of observation and directed practice. Prerequisites, 32b and permission of the instructor. Th 4. Mr Bragdon, Mr Darby.
- [410b *Advanced Child Study*. Demonstration of and practice in techniques for the study of children. Each student plans and carries out an individual project. One period for discussion, two laboratory periods. Prerequisite, Education 34a or b or 35a or b, or Psychology 23a or b and permission of the instructor.]
- 411a *Art Education*. Theory and practice of art education in the elementary school. By permission of the instructor. Recommended background, Art 13. T 7:30. Mrs Jules.
- 411b Repetition of 411a. T 7:30. Mrs Jules.
- 412b *Music Education*. Theory and practice of music education in the preschool and elementary grades. For majors or by permission of the instructor. M 7:30. Mr Contino.
- Spanish 32a or 32b *Teachers' Course*
- Speech 38b *Oral Interpretation of Children's Literature*.
- French 42a, 42b *Teachers' Course*.
- Speech 48a *Teachers' Course*.
- 50, 50a, 50b Research and Thesis. Three or six hours.
- 51, 51a, 51b Advanced Studies: special problems in education. Two or three hours each semester.
- 52a *Problems of American Education*. Required of all candidates for the Master's degree in education. T 4. Mr Bragdon.
- 53b *Preschool and Parent Education*. T 4. Miss Cockrell.

EDUCATION & CHILD STUDY

54b *Elementary Education.* T 4. Miss Rees.

55b *Secondary Education.* T 4. Mr Bragdon.

[56b *Higher Education.* History and present status in the United States. *One or more hours.*]

57 *Problems in the Education of the Deaf.* Historical development of education of the deaf, the physiological and psychological problems of deaf children, and problems of curriculum, with emphasis on language. By permission of the instructor. Mr Pratt.

59, 59a, 59b *Practice Teaching.* Given under the supervision of members of the Department. For qualified graduate students by permission of the Department.

510a *Child Development.* T 4. Miss Rees.

Adviser of graduate study: Mr Bragdon.

THE MAJOR

Students majoring in the Department may prepare for preschool or elementary-school teaching or for graduate work leading to an advanced degree. Students who intend to teach in secondary school are advised to major in the field in which they expect to teach and to take a few basic courses in education.

Advisers: members of the Department.

Based on 21a or 22a or b *and* one course in education and child study, psychology, sociology, or Social Science 192.

Essential Courses: 40a and eighteen semester hours in education.

Optional Courses: other courses appropriately related.

HONORS

Director: Miss Rees.

Prerequisites: courses listed as bases for the majors.

Program and Examinations: detailed plans of study may be had on consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:	CHARLES JARVIS HILL, PH.D.
	†HELEN WHITCOMB RANDALL, PH.D.
	DANIEL AARON, PH.D.
	ALFRED YOUNG FISHER, DOCTEUR DE L'UNIVERSITÉ DE DIJON
	KATHERINE GEE HORNBEAK, PH.D.
	ELEANOR TERRY LINCOLN, PH.D., <i>Chairman</i>
	†EDNA REES WILLIAMS, PH.D.
VISITING PROFESSOR:	ELIZABETH DREW, B.A.
VISITING LECTURER:	†VERNON PARKER HELMING, PH.D.
ASSOCIATE PROFESSORS:	ROBERT TORSTEN PETERSSON, PH.D.
	*GEORGE GIBIAN, PH.D.
	†RAYMOND JOEL DORIUS, PH.D.
	KENNETH AMOR CONNELLY, JR., PH.D.
LECTURER:	RUTH CAPERS MCKAY, PH.D.
ASSISTANT PROFESSORS:	WENDELL STACY JOHNSON, PH.D.
	†SYLVAN SCHENDLER, PH.D.
	WILLIAM HOOVER VAN VORIS, PH.D.
	†ANTHONY EVAN HECHT, A.M.
	FRANK H. ELLIS, PH.D.
INSTRUCTORS:	†SALLIE HARRIS SEARS, M.A.
	LORNA DAISY YOUNG, PH.D.
	ELIZABETH GALLAHER VON KLEMPERER, PH.D.
	JOAN MAXWELL BRAMWELL, M.A.
	LEWIS MERIWETHER DABNEY, A.M.
	FRANCIS E. X. MURPHY, PH.D.
	JACKIE MARIE PRITZEN, M.A.
	MARGARET L. SHOOK, M.A.
	HELEN SOOTIN SMITH, A.B.
	ROSS HUTCHESON DABNEY, A.B.

The courses in English which may be taken to fulfill the distribution requirement in Group A are 21, 23a and b, 25, 211, 212.

Grade 3 courses are open to sophomores who have completed three hours of work in Division A or in General Literature 291.

Students who are planning a major in English are urged to take related courses in classics, history, philosophy, and religion.

- 11 *Freshman English.* Practice in expository and critical writing in connection with the study of selected literary texts. Members of the Department, Mr Ellis (*Director*).

ENGLISH LANGUAGE & LITERATURE

A. Language and Literature

- 21 *The History of English Literature.* An analysis through lectures, reading, and discussion of representative authors and works, chosen for the purpose of illustrating the temper and the controlling ideas of successive periods from the earliest period to the present day. Lec. Th F 10; dis. F 12, S 10. Mr Hill, first semester; Miss Hornbeak, Mrs von Klemperer, second semester.
- 23a, 23b *Forms of the Drama.* A study of the principal forms, European and Asiatic, with special attention to the different kinds of theatre and to the greatest plays and playwrights from Aeschylus to Hebbel. 23a is not a prerequisite for 23b. M T W 3. Mr Eliot, first semester; Mr Johnston, second semester.
- [25 *Literature of the Middle Ages.* Motifs and ideas in important works, including the *Consolation of Philosophy*, the *Nibelungenlied*, Irish folk tales, the *Song of Roland*, Arthurian romance, medieval lyrics, and the *Divine Comedy*. Reading based on translations.]
- 211 *Literature of the Nineteenth and Twentieth Centuries.* Open only to sophomores. M T W 10. Mr Johnson, first semester; Miss Drew, second semester.
- 212 *American Literature from the Early Seventeenth Century to the Civil War.* Not open to students who have taken or are taking 321a or 321b. M T W 11. Mr Aaron.
- 30a *The Grounds of Literary Judgment.* Various approaches to the study of literature. This course is designed to provide a basis for the work of the major. Open only to juniors majoring in English. M T W 9, 11; Th F S 9, 10; W 3 and Th 2-4. Members of the Department.
- 31a *Chaucer.* A study of his art, and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 10. Mr Helming.
- 31b *Chaucer.* Repetition of 31a. M T W 3. Mr Johnson.
- [32b *Medieval Literature.* A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period. Prerequisite, 31a or 31b. M T W 10. Miss Williams.]
- [33a *The English Language.* Main historical developments from the beginning to 1400, illustrated from readings in each period. Studies in literary interpretation and style. M T W 9.]
- [33b *The English Language.* Continuation of 33a from 1400 to the present. Prerequisite, 33a. M T W 9.]

ENGLISH LANGUAGE & LITERATURE

- [34a *Old English*. A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W Th F 2. Miss Williams.]
- [34b *Old English*. A study of Beowulf. W Th F 2. Miss Williams.]
- 35b *Sixteenth-Century Literature*. Prose and poetry from Wyatt through the poems of Shakespeare, studied in the light of ideas and forms characteristic of the Renaissance. Th F S 11. Mr Dorius.
- 36a *Shakespeare: Romeo and Juliet, I Henry IV, As You Like It, Troilus and Cressida, King Lear, Antony and Cleopatra, The Tempest*. Th F S 12. Mr Hill.
- 36b *Shakespeare: Richard II, Hamlet, Othello, Much Ado about Nothing, Measure for Measure, Coriolanus, The Winter's Tale*. M T W 12. Mr Fisher.
- 38b *Seventeenth-Century Prose*. The Baroque and the Classical. Readings from the Bible, Bacon, Browne, Milton, Bunyan, and especially Donne. Th F S 11. Mr Petersson.
- 39a *Seventeenth-Century Poetry from Donne to Dryden*. Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th F S 9. Miss Lincoln.
- 39b *Milton*. The major and minor poems with attention to current problems in interpretation and criticism. Th F S 9. Miss Lincoln.
- 310a *Augustan Satire*. Theories and techniques of satire studied in the work of Dryden, Addison, Steele, Pope, Swift, and Gay. M T W 12. Miss Hornbeak.
- 310b *The Age of Johnson*. Biography, essay, criticism, poetry. M T W 12. Miss Hornbeak.
- 311b *Restoration and Eighteenth-Century Drama, 1660-1800*. A close study of the backgrounds, modes of production, and texts of significant plays. M T W 3. Mr Van Voris.
- 314a *The English Novel*. Defoe to Jane Austen. M T W 11. Mr Hill.
- 314b *The English Novel*. Dickens to E. M. Forster. M T W 11. Mr Hill.
- 317a *Victorian Prose and Poetry*. Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossettis, Swinburne, and Hopkins. Th F S 11. Mr Johnson.

ENGLISH LANGUAGE & LITERATURE

- 318a *Twentieth-Century British Literature*. Joyce, Yeats, Eliot. Open only to juniors and seniors. Th F S 10. Mr Connelly.
- [321a *Transcendentalism in American Literature*. Emerson, Thoreau, and Whitman. Not open to students who have taken or are taking 212. Alternates with 322a. M T W 9. Mr Aaron.]
- [321b *Hawthorne, Poe, and Melville*. Not open to students who have taken or are taking 212. Alternates with 322b. M T W 9. Mr Aaron.]
- 322a *American Literature from the Civil War to the End of the Nineteenth Century*. Alternates with 321a. Not open in 1960-61 to students who have taken 212. M T W 9. Mr Aaron.
- 322b *American Literature from the Beginning of the Twentieth Century to the Present*. Alternates with 321b. M T W 9. Mr Aaron.
- 323b *Idea and Form in Twentieth-Century Fiction*. Open only to juniors and seniors. Not open to students who have had 47b. M T W 9. Mr Gibian.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in English above Grade I. *Two or three hours*.
- [43b *Some Romantic Poets: Byron, Wordsworth, Coleridge, and Others*.]
- 46a *Shaw and some of his Contemporaries*. Important plays, British, Irish, and American, of the last hundred years. Th 4-6. Mr Eliot.

Undergraduate Seminars

Open to seniors and juniors by permission of the instructor. Limited to twelve students.

- [412a *The Pastoral Tradition*. Primitive, classical, religious, philosophical, and political adaptations of pastoral themes and conventions in lyric poetry, romance, elegy, allegory, the drama, and satire. Th 4-6. Miss Lincoln.]
- 413b *English Drama from 1560-1642*. Shakespeare's predecessors and contemporaries. W 7:30-9:30. Mr Dorius.

ENGLISH LANGUAGE & LITERATURE

- 414a *Biography, Memoirs, Journals, and Letters of the Eighteenth Century.* A study of these types with emphasis on literary values and the reflection of personality, contemporary ideas, and social background. Selected topics based on the writing of such representative figures as Swift, Lady Mary Wortley Montagu, Johnson, Boswell, Walpole, Chesterfield, Gibbon, Gray, Cowper, Mrs Thrale, Fanny Burney, Wesley. Th 7:30-9:30. Miss Hornbeak.
- [415b *Literary Criticism from Dryden to the Present.* A study of neo-classical, romantic, and contemporary criticism. Th 4-6. Mr Arvin.]
- 416a *Tragedy.* Tragic form and tragic vision. Theory and practice mainly from the Elizabethan period to the present. T 7:30-9:30. Mr Petersson.
- 416b *The Comic.* Theories of humor; comedy of situation, character, language; great comic figures. Examples of comedy in verse, prose, and drama, drawn primarily from English literature. T 7:30-9:30. Mr Gibian.
- 417a *Major Figures in American Literature of the Nineteenth Century.* Subject for 1960-61: Henry James. Open only to seniors. Th 4-6. Mrs von Klemperer.
- [418a *American Literary Movements, 1900-1920.* Developments in fiction, poetry, drama, and criticism. T 7:30-9:30. Mr Aaron.]
- [419a *Poetics.* A close study of selected lyrics from the early sixteenth century to the present day, in relation to technique, value, and style. M 7:30-9:30.]
- 420b *Preromanticism.* Romantic tendencies in the eighteenth century: sentiment and sensibility; the rediscovery of nature; primitivism and progress; varieties of liberalism; represented in the works of such writers as Steele, Pope, Thomson, Gray, Collins, Goldsmith, Cowper, Crabbe, Burns, and others. Th 3-5. Mr Ellis.
- 421b *Religious Poetry.* Devotional verse and the religious lyric in English literature, with reference especially to the fourteenth century, the seventeenth century, the Victorian, and the modern periods. M 7:30-9:30. Mr Johnson.
- 422b *James Joyce.* The early works will be studied as a prologue, and a sampling of *Finnegans Wake* as an epilogue, to an intensive examination of *Ulysses*. W 7:30-9:30. Mr Fisher.

B. Composition

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open both to students who have and to those who have not taken the corresponding course in the first semester.

ENGLISH LANGUAGE & LITERATURE

220a, 220b *Practice in Various Forms of Writing*. M T W 11. Mr Van Voris (*Director*), Mrs Bramwell.

347a, 347b *Short Story Writing*. Though the emphasis in this course will be on fiction. opportunity will be given for other kinds of writing. By permission of the instructor. T 4-6. Mr Dabney.

[428a, 428b *Advanced Composition*. Practice in the writing of fiction. For seniors by permission of the instructor.]

C. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*

[53a *Seminar in Middle English Poetry*. Emphasis will be placed on the works of Chaucer, medieval romances, or medieval drama, according to the special needs of the students. Attention will be given not so much to the reading of texts as to problems of research.]

[55 *Shakespeare*. Critical problems, textual and literary. Lectures and reports.]

[57a *Studies in Seventeenth-Century Literature*.]

[58a *Studies in Eighteenth-Century Literature*. Miss Hornbeak.]

[59a, 59b *Studies in Nineteenth-Century Poetry*.]

[510b *Studies in Nineteenth-Century Fiction*.]

[512a *Studies in American Literature*.]

Inquiries concerning graduate work should be directed to the Chairman of the Department.

THE MAJOR

Advisers: Mr Fisher, Miss Williams, Mr Gibian, Mr Connelly, Mr Johnson, Mr Schendler, Mr Van Voris, Mr Ellis, Miss Drew, Mrs von Klemperer.

Based on six semester hours from Division A or General Literature 291.

Essential Courses: 30a (to be taken in the junior year), 31a or b, 36a or b.

ENGLISH LANGUAGE & LITERATURE

Three hours chosen from: 35b, 38b, 39a or b, 413b.

Three hours chosen from: 310a or b, 311b, 314a, 414a, 420b.

Nine additional hours from Division A.

Optional Courses: six semester hours in English or foreign literatures or in closely allied fields.

Students majoring in English will be required to pass a general examination at the end of the senior year.

HONORS

Directors: Mr Hill (1961), Mr Petersson (1962).

Prerequisites: see the requirements for entrance to the major.

Program: students must fulfill the general requirements of the major. Exceptions to the general rule that honors students must fulfill the distribution requirements of the English major may be made with the approval of the directors. Candidates must take at least one unit each year in the junior and senior years.

In the first semester of senior year honors students will present a long paper to count for three hours, outside the twenty-one semester hours in the major.

Three examinations are given. The first is on major figures and the second on general topics. The third requires a close critical analysis of particular works and passages.

Units

First semester

American Literature. Six hours. M 7:30-9:30. Mr Aaron.

Shakespeare. Six hours. W 7:30-9:30. Mr Fisher.

Drama from Ibsen to the Present Day. Three hours. M 3-5. Miss Drew.

Aesthetics (Department of Philosophy). This unit is open to a limited number of students in English. Six hours. Miss Walsh.

Modern British and American Poetry. Six hours. T 3-5. Miss Drew.

Second semester

Shakespeare. Six hours. T 7:30-9:30. Mr Hill.

Satire. Six hours. Th 7:30-9:30. Miss Hornbeak.

Selected Novelists of the Eighteenth and Nineteenth Centuries. Six hours. Th 7:30-9:30. Mr Hill.

The Twentieth-Century Novel. Six hours. W 7:30-9:30. Mr Connelly.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	VINCENT GUILLOTON, AGRÉGÉ DE L'UNIVERSITÉ HÉLÈNE CATTANÈS, DOCTEUR DE L'UNIVERSITÉ DE PARIS RENÉ GUIET, DOCTEUR DE L'UNIVERSITÉ DE PARIS MARGARET HILL PEOPLES, PH.D., <i>Chairman</i> MARTHE STURM, LIC. ÈS L., DIPLOME D'ÉTUDES SUPÉRIEURES MARINE LELAND, PH.D., LITT.D. (HON.) A. JEANNE SALEIL, AGRÉGÉE DE L'UNIVERSITÉ
VISITING ASSOCIATE	
PROFESSOR:	JEAN ARISTIDE LAMBERT, DIPLOME D'ÉTUDES SUPÉRIEURES
ASSISTANT PROFESSORS:	**JEANNE SEIGNEUR GUIET, M.A. ANNE GASOOL, A.M. WILLIAM CURTIS MEAD, PH.D. GEORGE TREMBLEY, LIC. ÈS L., PH.D. THOMAS CASSIRER, PH.D.
LECTURER:	JOHN BUTEAU, A.M.
INSTRUCTORS:	†ROSE ABENDSTERN, M.A. JOSEPHINE LOUISE OTT, M.A. WARREN DAVID NOAKES, A.M. MIREILLE AZIBERT, LIC. ÈS L., DIPLOME D'ÉTUDES SUPÉRIEURES JEANNE GRILLET, LIC. ÈS L. KEITH HARVIE MACFARLANE, B.A. MARIE-JOSÉ MADELEINE DELAGE, LIC. ÈS L., DIPLOME D'ÉTUDES SUPÉRIEURES MIREILLE JANINE BLANC, BACCALAURÉAT

The courses in French which may be taken to fulfill the distribution requirement in Group A are 25 and 26.

All classes in the Department except 312a are conducted in French.

Freshmen who plan to major in French or who hope to spend the junior year in Paris or in Geneva are advised to take 13 or 22a and b.

It is recommended that students planning to major in French have a reading knowledge of a second language (ancient or modern) and take a general course in English literature and one in European history. Students planning to spend their junior year in Paris are urged to take Art 11 in their freshman or sophomore year.

A. Language

- 11D *Elementary Course* (first and second parts). *Six hours each semester.* M T W Th F 10, 11, or M T W 3 Th F 2, and Th 4. Members of the Department. (L)
- 12 *Elementary Course* (second part). Prerequisite, two units in French. M T W 10, 11, 12; Th F S 10, 11, 12. Members of the Department.

FRENCH LANGUAGE & LITERATURE

- 13 *Reading, Grammar, and Composition.* Prerequisite, three units in French, 12, or 11d. M T W 9, 12; Th F S 11. Members of the Department.
- 22a, 22b *Intermediate Course.* Study of modern texts from the point of view of language. Written and oral reports. Prerequisite, four units in French, 13, or 16. Prerequisite for 22b, 22a, or permission of the Chairman. M T W 10, 11; Th F S 9, 10. Members of the Department.
- 24a *Theoretical and Practical Phonetics.* Exercises in hearing, pronunciation, and phonetic dictation. Open to freshmen. Two class hours. *One hour.* M T 5. Mr Trembley.
- 24b A repetition of 24a. M T 5. Mr Trembley.
- 31a *Advanced Course in Composition.* Students majoring in French may be urged to repeat this course if they do not spend the junior year in France. Recommended to those who intend to teach French. Prerequisite, 22a and b, or by permission of the instructor.
- [34b *Advanced and Experimental Phonetics.* Prerequisite, 24a or b. *Two hours.* Miss Sturm.]
- 42a *Teachers' Course.* Problems and methods of modern language teaching. Practice in teaching. Mr Buteau.
- 42b A continuation of 42a. Prerequisite, 42a. Mr Buteau.

B. Literature

Unless otherwise stated the prerequisite for courses of Grade III is 26.

- 15 *Introduction to French Literature.* Choice of representative texts from the Middle Ages to the present day. Literary, historical, and cultural background. The written work is in English. Prerequisite, three units in French, 12, or 11d. Lec. Th 5; Sect. M T W 9; Th F S 9, 10, 11. Members of the Department. (L)
- 16 *Introduction to French Literature.* This course is of the same grade and plan as 15 but the written work is in French. Recommended, instead of 15, for students planning to continue the study of French. Prerequisite, three units in French, 12, or 11d. Lec. Th 5; Sect. M T W 9, 10, 11, 12; Th F S 9, 10. Members of the Department. (L)
- 25 *Masterpieces of French Literature of the Nineteenth Century.* Novel, drama, poetry; romantic, realistic, and naturalistic schools. This course is conducted in French, but the written work is in English. Prerequisite, four units in French,

FRENCH LANGUAGE & LITERATURE

- 13, 15, 16, or, by permission, 11b or 12. M T W 9, 12; Th F S, 12. Members of the Department. (L)
- 26 *Masterpieces of French Literature of the Nineteenth Century.* This course is of the same grade and plan as 25 but the written work is in French. Recommended, instead of 25, for students who plan to continue the study of French. Prerequisite, four units in French, 13, 16, or by permission. M T W 9, 10, 11, 12; Th F S 9, 10, 11, 12. Members of the Department. (L)
- 310b *Life and Works of Molière.* Open to sophomores by permission of the instructor. W Th F 2. Miss Leland.
- 311 *French Literature of the Seventeenth Century.* Open to sophomores. Th F S 9. Mr Guilloton.
- 312a *French-Canadian Civilization from 1763 to the Present.* Conducted in English. No prerequisite; recommended background, a reading knowledge of French. Open to sophomores. W Th F 2. Miss Leland.
- 314b *French Literature of the Eighteenth Century.* Open to sophomores. Th F S 10. Mr Guiet.
- 316a *French Literature to the End of the Renaissance.* Open to sophomores. Th F S 10. Mr Guiet.
- 318a *Contemporary French Drama and Poetry.* Recommended background, 311. Th F S 11. Miss Sturm.
- 318b *Contemporary French Novel.* Recommended background, 311. Th F S 11. Mr Lambert.
- 320a *The French Novel from 1850 to 1914.* Open to sophomores. M T W 12. Miss Cattànès.
- 323b *Modern France.* Social and cultural trends. Primarily for majors not taking their junior year in Paris. M T W 11. Miss Sturm.
- 40b *Directed Readings for Correlation of the Major Field.* Th 4-6. Miss Sturm.
- 41, 41a, 41b *Special Studies in French language or literature.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in French. *Two or three hours.*
- 45a *History of Modern French Thought.* The Renaissance to the present. For seniors by permission of the instructor. Th 4-6. Miss Sturm.
- [47a *Studies in Eighteenth-Century Literature.* Alternates with 48a. For seniors by permission of the instructor.]

FRENCH LANGUAGE & LITERATURE

- 48a *Studies in Nineteenth-Century Literature with Emphasis on Victor Hugo.* Alternates with 47a. For seniors by permission of the instructor. Mr Lambert.

C. Graduate Courses

- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*
- [52 *Old French.* Linguistics and literature. Miss Leland.]
- 53 *Problems of Modern Syntax.* Miss Cattànès.
- 56a *Development of Literary Criticism in France.* Mr Guilloton.
- 56b *Literary Relations between England and France in the Eighteenth Century.* Mr Guilloton.
- 58b *Montaigne.* *One hour or more.* Mr Guet.
- 510b *French Poetry from 1885 to the Present.*

Adviser of graduate study: Mr Guilloton.

THE MAJOR

Advisers: Class of 1961, Mr Guilloton; Class of 1962, Miss Cattànès.

Based on 26; on 16 or 13 if 26 is taken junior year in addition to the major.

Essential Courses: 40b and twenty-one semester hours in French.

Optional Courses: other courses in the Department or in allied fields.

HONORS

Director: Mr Guilloton.

Prerequisite: 26.

Program:

Requirements: the general requirements for the major; a unit involving the writing of a paper; a review unit.

Optional: with the approval of the director any unit or course in French or in an allied field of Grade III or IV, or, for seniors, Grade V.

Examinations: of the three examinations, the two on literature will be written in English. One general examination on the whole field of French literature; one specialized examination on a limited period (sixteenth, seventeenth, eighteenth, or nineteenth century, or the modern field); one on language with translation from English to French, from French to English, and a short composition in French.

GEOLOGY & GEOGRAPHY

ASSOCIATE PROFESSORS:

ROBERT FRANK COLLINS, A.M.
CAROLINE HEMINWAY KIERSTEAD, PH.D.
MARSHALL SCHALK, PH.D., *Chairman*
**HELEN STOBBE, PH.D.

TEACHING FELLOWS:

NANCY ATHERTON CASE, A.B.
JANE ELIZEABETH GALLEN, B.S.

Geology 11 may be taken to fulfill the distribution requirement in Division III.

Students planning to major or to do honors work in geology are required to take six semester hours in at least one of the following: chemistry, mathematics, physics, or zoology.

- 11 *General Geology.* Forces of nature now modifying the materials and structure of the earth; history of the earth. Field trips. Two lectures and two and one-half hours of laboratory. Lec. Th F 10. Lab. T 9, M T Th F 2. Mr Collins, Mr Schalk.
- 21a, 21b *Introductory Meteorology.* The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Prerequisite for 21b, 21a. Two lectures and one demonstration. Mr Schalk.
- 213b *Geography of North America.* Regional characteristics of North America exclusive of Mexico. M T W 12. Mrs Kierstead.
- 31a *Geography of Asia.* Influence of relief, climate, and natural resources on the life, movements, and history of its peoples. M T W 10. Miss Stobbe.
- [32a *South America.* Geography of the continent; climatic and physiographic backgrounds of cultural, political, and economic development. M T W 12. Miss Stobbe.]
- 33 *Land Surfaces of the United States.* Physiographic foundations of American regional, economic, and social culture. Systematic description of physical divisions of the United States. Geomorphic processes and principles. Th F 11 and one hour to be arranged. Mr Collins.
- [34a, 34b *Economic Geology.* Lectures and laboratory study of geological products of commercial value. Prerequisite, 11, or 32a, or Chemistry 11. Lec. M T 12; lab. hours to be arranged. Miss Stobbe.]

GEOLOGY & GEOGRAPHY

- 35a *Europe and North Africa*. Geographic backgrounds of current problems. M T W 12. Miss Stobbe.
- [36a, 36b *Field Geology*. Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Prerequisite for 36a, 11; for 36b, 36a. Given in alternate years. Th F 12, Th 2-6. Mrs Kierstead.]
- 37a *Stratigraphy*. Stratigraphic methods and techniques; geological systems and subdivisions. Prerequisite, 11. Two lectures and two and one-half hours of laboratory. Mrs Kierstead.
- [38a *Optical Mineralogy*. Optical properties and identification of minerals in fragments and thin sections. Prerequisite, 325b. Miss Stobbe.]
- [39b *Petrography*. Identification and classification of rocks with the polarizing microscope. Prerequisite, 38a. Miss Stobbe.]
- 314b *Geology of Petroleum and Natural Gas*. Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite, 11, or permission of the instructor. Mr Schalk.
- 322a *Structural Geology*. The study and interpretation of rock structures; their origin, topographic effect, and economic importance. Open to students who have passed 11. Lec. Th F 12; lab. T 2-5. Mrs Kierstead.
- 323a, 323b *Paleontology*. Marine invertebrate fossils and their significance in interpreting the history, climate, and geography of the past. Open to students who have passed 11, Zoology 11, or Biological Science 195. Two-day field trip in second semester. Lec. Th F 10; lab. Th 2-5. Mrs Kierstead.
- 324a *Mineralogy*. General principles; study of the more important rock-forming, economic, and gem minerals. For students who have passed or are taking 11, Chemistry 11, Physics 11, or Physical Science 193. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe.
- [325b *Lithology*. Interrelation of the main rock types; their origin, structure, mineral composition, occurrence, and economic importance. Field methods of identification. Prerequisite, 324a. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe.]
- 328a *Principles of Cartographic Drafting, Editing, Reproduction*. Practice in map reading, compilation and simple map drafting. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.

GEOLOGY & GEOGRAPHY

- 329b *Geologic and Geographic Illustration*. Charts, graphs, block diagrams, sections. Drawing for reproduction. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.
- 40b Senior Review Essay. For seniors majoring in geology or geography. M 2-5. Members of the Department.
- 41, 41a, 41b Special Studies in geology or geography. By permission of the Department for senior majors who have had twelve semester hours above Grade I in the Department. Members of the Department. *Two or three hours*.
- 46a, [46b] *Micropaleontology*. A study of micropaleontology with particular emphasis on Foraminifera, their classification and importance in petroleum geology. Lec. T W 11; lab. T 2-5. Mrs Kierstead.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51, 51a, 51b Individual problems in geology or geography. *Two hours or more*.
- 52, 52a, 52b *Paleontology or Stratigraphy*. *Two hours or more*. Mrs Kierstead.
- 53, 53a, 53b *Physiography*. *Two hours or more*. Mr Collins.
- 54, 54a, 54b *Structural Geology*. *Two hours or more*. Mrs Kierstead.
- [55], 55a, [55b] *Crystallography, Mineralogy, Petrology, or Gemology*. *Two hours or more*. Miss Stobbe.
- 57, 57a, 57b *Petroleum Geology*. *Two hours or more*. Mr Schalk.
- Adviser of graduate study: Mr Schalk.

THE MAJORS

GEOLOGY

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11.

Essential Courses: 36a and b, 322a, 323a, 324a, 325b, 40b, and six hours in chemistry, mathematics, physics, or zoology.

Optional Courses: other courses in geology or in other sciences.

GERMANIC LANGUAGES & LITERATURES

GEOGRAPHY

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11, 213b, 21a.

Essential Courses: 11 if not already taken; 40b and twelve semester hours above Grade II in the Department.

Optional Courses: other courses in geology; courses in other sciences, history, and economics.

HONORS IN GEOLOGY

Director: Mr Schalk.

Prerequisites: 11, and 323a and 323b *or* 324a and 325b; and one year of college chemistry, physics, or zoology.

Program:

Requirements: 323a and 323b *or* 324a and 325b (whichever has not been taken previously); 33, 36a and 36b; and six additional hours of Grade III or above in geology *or* six hours in an advanced course of a science other than geology.

Examinations: two will be in the general field of the major; a third may be in a field of concentration.

GERMANIC LANGUAGES & LITERATURES

PROFESSORS:

PAUL GERALD GRAHAM, PH.D.

MARIE SCHNIEDERS, PH.D., *Chairman*

ASSISTANT PROFESSORS:

MARION WILMA H. SONNENFELD, PH.D.

REINHARD ADOLF LETTAU, PH.D.

ASSISTANT:

RITA M. HAUSAMMANN, B.A.

The courses in German which may be taken to fulfill the distribution requirement in Group A are 25a and b, 26, 27a and b.

Students who possess a thorough knowledge of German considerably in excess of what their preparatory school work indicates, may be assigned to more advanced classes. They should consult the chairman of the Department.

Students planning to major in German should carry work in German in the first two years. A course in European history and a course in philosophy are also recommended.

Those who need a knowledge of German for use in the sciences will be advised about appropriate reading in the various German courses.

GERMANIC LANGUAGES & LITERATURES

A. German Language

- 11 *Elementary Course.* Five class hours. *Three hours each semester.* M T 9, Th F 9, and three hours to be arranged. Miss Sonnenfeld (*Director*), and members of the Department.
- 11D *Elementary Course* (covering the work of two years). Seven class hours. *Six hours each semester.* M T W Th F 10 and two hours to be arranged. Mr Lettau. (L)
- 12 *Intermediate Course.* Prerequisite, two units in German or 11. M T W 11, 3, Th F S 11, one additional hour to be arranged in place of some preparation. Members of the Department. (L)
- 21 *Composition and Conversation.* Prerequisite, three units in German, 11D, 12, or the equivalent. T Th 2, and one hour to be arranged. Miss Schnieders.
- 31a *Advanced German Composition.* Intensive practice in free composition and translation. Prerequisite, 21 or permission of the instructor. Mr Lettau.
- 31b Repetition of 31a.

B. German Literature

The prerequisite for courses of Grade III is a Grade II course or the equivalent.

- 25a, 25b *Modern Prose.* The *Novelle* of the nineteenth and twentieth centuries. Prerequisite, three units in German, 11D, 12 or the equivalent. Miss Sonnenfeld. (L)
- 26 *An Introduction to the Classical Literature of the Eighteenth Century.* Selections from the works of Lessing, Goethe, and Schiller. Prerequisite, three units in German, 11D, 12, or the equivalent. M T W 10. Mr Graham. (L)
- 34a, 34b *German Literature of the Nineteenth Century.* Beginning with the romantic movement. Mr Graham.
- 35a *An Historical Survey of German Literature.* The earliest times to the middle of the eighteenth century. Miss Schnieders.
- 38b *Masters of Modern German Literature.* Selected works of representative writers since 1890. Mr Lettau.
- 311a *Goethe: His Life and Works.* Mr Lettau.

GERMANIC LANGUAGES & LITERATURES

311b *Goethe's Faust, Parts I and II.*

40b Directed reading required of seniors majoring in the Department.

41, 41a, 41b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in German. *Two or three hours.*

C. German Literature in Translation

[27a *The German Novel.* From Goethe to Thomas Mann. Th F S 10. Members of the Department.]

27b *The German Drama.* From Lessing to Bert Brecht. Members of the Department.

D. Germanic Philology

[42a *Historical Survey of the German Language.* Miss Schnieders.]

E. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Special Studies in the fields of literature and linguistics arranged in consultation with the Department. *One hour or more.*

Adviser of graduate study: Miss Schnieders.

THE MAJOR

Adviser: Miss Sonnenfeld.

Based on 11b or 12.

Essential Courses: 21, 35a, 40b, and nine semester hours of other German courses above Grade II.

Optional Courses: courses in German except 27a and b, in literature, history, or philosophy.

HONORS

Director: Mr Graham.

Prerequisites: 21, 26, or the equivalent.

Program: a minimum of forty-eight semester hours.

GOVERNMENT

Requirements: a minimum of twenty-four semester hours in the Department; twelve hours in related fields; three or six in first semester of senior year on the preparation of a paper; three in second semester on directed reading.

Examinations: an examination on the general field; one on a specialized field; and an analytical examination which may include such topics as problems of analysis, criticism, and style, translation from German into English and from English into German, a composition in German.

Units

The Department will offer units in the fields of linguistics, literature, and language for honors students in German or for honors students in other departments who have had a Grade II course in German. In addition, units conducted in English will be offered for honors students in other departments who have had no German.

GOVERNMENT

PROFESSORS:	**GWENDOLEN MARGARET CARTER, PH.D. CECELIA MARIE KENYON, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	§ALAN BURR OVERSTREET, PH.D. †LEO WEINSTEIN, PH.D.
ASSISTANT PROFESSORS:	GUENTER LEWY, PH.D. STANLEY ROTHMAN, PH.D. KENNETH GEORGE OLSON, M.A. CHARLES LANGNER ROBERTSON, PH.D. JOHN POWERS MALLAN, A.M.
VISITING LECTURER:	²MAURICE J. C. VILE, PH.D.
INSTRUCTORS:	PETER NILES ROWE, PH.D. ROBERT BRUCE CARROLL, M.P.A.

The distribution requirement in Group E may be fulfilled by any year course or by any two semester courses in the same section, or by Social Science 192.

For students planning to major or to do honors work in the Department, History 11, Economics 21, and Sociology 11a and b are suggested. See also the honors program.

Grade III courses are open to sophomores with the permission of the instructor.

Seminars, Grade IV courses, require the permission of the instructor and ordinarily presume as a prerequisite a Grade II or III course in the same section.

- 11 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only; not open to students who have

GOVERNMENT

taken Social Science 192. Two lectures and one discussion. Lec. M T 12. Dis. W 9, 12, 2; Th 9, 12; F 11. Mr Lewy, Mr Vile, and other members of the Department.

- 11a The first semester of 11 for sophomores who have passed Social Science 192. Hours and instructors as in 11.

A. American Government

- 21 *American Government.* The processes and functions of American government in the light of the principal concepts of American democracy. Not open to students who have taken or are taking a Grade III course in this section, or 324b. M T W 10. Mr Mallan.
- 31a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis upon changing ideas concerning federalism and separation of powers. M T W 11. Mr Carroll.
- 31b *American Constitutional Law.* Powers of the national government and fundamental rights of citizens as interpreted by decisions of the Supreme Court. M T W 11. Mr Carroll.
- 32a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 3. Mr Olson, Mr Carroll.
- 32b *Congress and the Legislative Process.* An analysis of the legislative process in the United States, focused upon the contemporary role of Congress in its relations with the Presidency, the federal bureaucracy, and pressure groups. M T W 3. Mr Olson.
- [33a *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and atomic energy development.]
- 33b *Administration and Policy Development.* Theory and practice of the administrative state with special reference to the problem of obtaining responsible performance from the federal bureaucracy. Use is made of the case method. M T W 2. Mr Carroll.
- 34b *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning, field study of political attitudes. M T W 11. Mr Mallan.

GOVERNMENT

42a, [42b] *Seminar in American Government.* Mr Lewy.

43b *Seminar in Public Opinion and Pressure Groups.* Mr Olson.

B. Comparative Government

36 *European Government.* The development and operation of the political systems of England, France, Germany, and Russia. The emphasis will be upon comparative analysis. Recommended preparation, 11 or History 11. M T W 9. Mr Rothman.

38b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, South Africa, India, Pakistan, Ceylon, and Ghana. M T W 10. Mr Vile.

47a *Seminar in Comparative Government.* Mr Rothman.

48a *Seminar on Comparative African Government.* An analysis of recent constitutional and political developments in selected territories of Africa south of the Sahara. Prerequisite, a course on Africa south of the Sahara. Miss Carter.

C. International Relations

211a *International Relations.* The context, practices, and problems of international politics. Th F S 10. Mr Robertson.

311b *International Relations.* The role and function of international organization in international relations. Achievements and limitations of regional and universal organizations such as NATO and the UN. Th F S 10. Mr Robertson.

312a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. M T W 2. Mr Rowe.

[322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]

[322b *Foreign Policy of the United States since 1898.*]

324a *Foreign Policy of the United States since 1898.* Emergence of the United States as a world power, responses to new post-war problems and the relation between governmental organization and policy development. M T W 10. Mr Rowe.

324b *Foreign Policy of the United States.* An analytical treatment: the internal organization and political setting of United States foreign policy formulation and control. The nature of problems facing American decision-makers today. M T W 10. Mr Rowe.

411a, 411b *Seminar in International Politics.* Mr Robertson, Mr Rowe.

GOVERNMENT

D. Political Theory

- 326 *History of Political Thought from Plato to the Present.* Greek political philosophy, the Stoics, medieval theory, rise of the nation-state, and modern liberal, democratic, and totalitarian thought. Designed to provide a foundation for the understanding of current political problems. Th F S 11. Miss Kenyon.
- 327b *American Political Thought.* The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10. Miss Kenyon.
- [423a *Seminar in American Political Thought.* Miss Kenyon.]
- 424b *Seminar in Contemporary Political Thought.*

40b Directed reading required of seniors majoring in the Department. Director: Mr Lewy. Members of the Department.

41, 41a, 41b Special Studies in advanced work arranged for individuals or small groups. By permission of the Department for senior majors who have had twelve semester hours above Grade I in government. *Two or three hours.*

HISTORY AND SOCIAL SCIENCE 495b *Interdepartmental Seminar in Economics, Government, History, and Sociology.* Modern Capitalism. Mr Brotz, Miss Hadley, Mr Mal-
lan.

[50, 50a, 50b Research and Thesis.]

51, 51a, 51b Advanced Studies. *Two or three hours.*

[55a, 55b Seminar.]

THE MAJOR

Advisers: Miss Carter, Miss Kenyon, Mr Rothman, Mr Lewy, Mr Robertson, Mr Rowe.

Based on 11 or Social Science 192 and Government 11a, or in exceptional circumstances on an advanced course approved by the chairman.

Essential Courses: 326, 40b, and twelve semester hours in government.

Optional Courses: nine semester hours selected from government and approved courses in history, economics, sociology, philosophy, or religion.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Years Abroad.

GOVERNMENT

HONORS

Director: Mr Lewy.

Prerequisites: 11 and an introductory course in history, economics, or sociology;
or Social Science 192 and Government 11a and one introductory course in history;
or in exceptional circumstances an advanced course approved by the director.

Minimum requirement: (1) one unit or seminar in junior and in senior year; (2) the unit in political theory or 326; (3) a long paper counting for six hours in the first semester of senior year; (4) directed reading counting for three hours in second semester of senior year.

Examinations: comprehensive examinations consisting of a general examination in political science, one in political theory, and one in a special field other than theory.

Units

Political Theory. First semester. Miss Carter, Mr Lewy.

Comparative Government. Second semester. Mr Rothman.

International Relations. Second semester. Mr Robertson

American Politics. First semester. Mr Mallan.

HISTORY

PROFESSORS:	THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D. SIDNEY RAYMOND PACKARD, PH.D., JUR.D. (HON.), L.H.D. LEONA CHRISTINE GABEL, PH.D. **MAX SALVADORI, DR.SC. (POL.), LITT.D. (HON.) †JEAN STRACHAN WILSON, PH.D. ELISABETH KOFFKA, PH.D.
ASSOCIATE PROFESSORS:	KLEMENS VON KLEMPERER, PH.D., <i>Chairman</i> DONALD HENRY SHEEHAN, PH.D. CHARLES WHITMAN MACSHERRY, PH.D. ARTHUR MANN, PH.D. LOUIS COHN-HAFT, PH.D. NELLY SCHARGO HOYT, PH.D.
VISITING LECTURERS:	†HUGH STRETTON, M.A. PETER DE BEAUVOIR BROCK, PH.D., D.PHIL.
ASSISTANT PROFESSORS:	NINA G. GARSOIAN, PH.D. RAMÓN EDUARDO RUIZ, PH.D. †SIDNEY MONAS, PH.D. PETER D'ALROY JONES, A.M. STANLEY MAURICE ELKINS, PH.D.
INSTRUCTORS:	GERARD ERNEST CASPARY, A.M. ANNA MARIA HERBERT, A.M. †LILLIAN BRENIG SILVER, M.A.
ASSISTANT:	A. JEAN ELDER, B.A.

The prerequisite for all courses above Grade I in the Department is 11, 12, or 13.

The distribution requirement in Group D may be met by any one of these courses. Qualified students who because of special circumstances have failed to take the history exemption examination given at the start of the freshman year and who may wish to fulfill the Group D requirement by taking courses of Grade II (including History and Social Science 293) should consult the chairman of the Department.

11 *General European History.* A survey of the history of Europe from the decline of the Roman Empire to the present. One lecture and two discussions. Lec. M 2; dis. T W 9, 11, 12, 2, 3; Th F 9, 10, 11, 12. Members of the Department, Mr MacSherry (*Director*).

12 *The Ancient World.* A survey of Mediterranean civilizations to the fall of the Roman Empire. Two lectures and one discussion. Lec. M T 10; dis. W 9, 10, 3. Mr Cohn-Haft (*Director*), and other members of the Department.

HISTORY

- 13 *History of the Americas.* A study of the Western Hemisphere from the age of discovery to the present: the European heritage, Indian cultures, the growth of colonial societies, imperial rivalries, the emergence of independence movements, and the evolution of the United States, Canada, and the Latin-American nations in their world setting in the nineteenth and twentieth centuries. Lec. F S 9; dis. Th 9, 12. Mr Ruiz (*Director*), Mr Jones, Mr Elkins.
- 23b *The Ancient Near East.* Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. Alternates with the Ancient Greece unit. M T W 2. Mr Cohn-Haft.
- 24a *Early English History to 1603.* M T W 11. Mr Caspary.
- 24b *English History since 1603.* M T W 11.
- 25a *Medieval France.* With major emphasis on the twelfth and thirteenth centuries. Open by permission of the instructor to students who have had 11 or 24a. Th F S 10. Mr Packard.
- [27a *Europe and the Far East to 1800.* Travelers, merchants, and missionaries to the Far East. European maritime and landward expansion into Asia. Intellectual interchange between China and Europe in the seventeenth and eighteenth centuries. Th F S 11. Mr MacSherry.]
- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr Haymes, second semester.
- [217a *History of Russia from the Kievan Period to 1825.* Th F S 10. Mr Monas.]
- [217b *History of Russia from 1825 to the Present.* Th F S 10. Mr Monas.]
- 30a *Introduction to Historical Thought.* A study of the nature of historical problems and of the development of historical thought, based on selected writings of great historians. This course is designed to provide a basis for the work of the major. For juniors majoring in history and for seniors returning from the junior year abroad. One lecture and one two-hour discussion. Lec. M 3; sections T 3-5; Th 3-5. Mr Mann (*Director*), Mr Cohn-Haft, Mr Caspary, Miss Herbert, and members of the Department.

HISTORY

- 33a *Classical Greece*. A study of Greek civilization at its height in the fifth and fourth centuries B.C. Open to sophomores by permission of the instructor. M T W 12. Mr Cohn-Haft.
- 33b *The Roman Empire*. Chiefly a social and political study. Open to sophomores by permission of the instructor. Alternates with 314b. M T W 12. Miss Garsoian.
- [34b *Economic and Social History of Europe in the Middle Ages*. Recommended background, 11, 24a, or 35b. M T W 10. Mr Packard.]
- 35b *Cultural History of Europe in the Middle Ages*. Recommended background, 11, 24a, or 25a. Th F S 10. Mr Packard.
- 36 *Age of the Renaissance and Reformation*. A study of the transition from medieval to modern times. Th F S 9. Miss Gabel.
- [37b *Problems of German History from 1648 to the Present*. A study of the growth and interaction of German intellectual, social, political, and economic forces within the framework of modern Europe. Alternates with 411a. Th F S 10. Mrs Koffka.]
- 38a *Intellectual History of Europe in the Eighteenth Century*. Main trends of thought in their relation to the political, social, and economic background. M T W 11. Mrs Koffka.
- 38b *Intellectual History of Europe in the Nineteenth Century*. Main trends of thought in their relation to the political, social, and economic background. M T W 11. Mrs Koffka.
- 39a *Modern European History*. Political, economic, and social developments in Europe during the nineteenth and twentieth centuries. Recommended background, 11 or its equivalent. M T W 12. Mr Salvadori.
- [39b *Modern European History, continued*. Political, economic, and social developments in Europe during the nineteenth and twentieth centuries. Recommended background, 11 or its equivalent. M T W 12. Mr Salvadori.]
- 310a *Modern Britain*. Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. M T W 10. Mr Stretton.

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- [311a *England under the Tudors and Stuarts.* Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 310a. M T W 10. Miss Wilson.]
- 312a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg Monarchy and its successor states. Problems of a multi-national area in an age of nationalism. The interaction between this area and the great powers. M T 4-5:30. Mr von Klemperer.
- 313b *The Age of Absolutism.* Political, social, and economic problems of Continental Europe from 1648-1789. M T W 9. Mrs Hoyt.
- [314b *The Byzantine Empire, 330-1453.* The main problems and characteristics of the Byzantine civilization and its relations, political, religious, and cultural with the west. Alternates with 33b. M T W 12. Miss Garsoian.]
- 315a *The Modern Middle East.* An introduction to the political, social, and economic developments in the modern Middle East with emphasis on the survival of traditional Muslim concepts and institutions. M T W 9. Miss Garsoian.
- [316b *Modern Imperialism.* Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. Alternates with 413b. M T W 2. Mr Salvadori.]
- 317a *History of Poland.* Political, economic and cultural development of Poland, emphasizing the period from the sixteenth century onwards. Th F S 10. Mr Brock.
- [318a *Introduction to Far Eastern Civilizations from the Beginning to 1500.* A survey of the political, economic, social, and cultural aspects of the civilization that developed in China; its extension and modification in Japan and other areas of Eastern Asia. Alternates with 425a. M T W 11. Mr MacSherry.]
- 318b *Introduction to Far Eastern Civilizations, 1500 to the Present.* A survey of Far Eastern civilizations during the period of limited contact with the West (sixteenth to eighteenth centuries) and the period of extensive Western influence (nineteenth and twentieth centuries). M T W 11. Mr MacSherry.
- 319a *American Political History from the Eighteenth Century to 1865.* W Th F 2. Mr Sheehan.

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- 319b *American Political History from 1865 to 1945.* W Th F 2. Mr Sheehan.
- 320b *History of the United States in the Twentieth Century.* A study of the development of the American economy in its relations to recent social and cultural changes. W Th F 3. Mr Jones.
- 321a *American Intellectual History, 1607-1865.* Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th F S 11. Mr Mann.
- 321b *American Intellectual History, 1865-1950.* The historical background of contemporary American thought, emphasizing the influence of industrialism, science, and religion. Th F S 11. Mr Mann.
- [322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]
- [322b *Foreign Policy of the United States since 1898.* To be given as Government 324a.]
- [323a *American Economic History since 1865.* Economic development of the United States and its influence upon political history. M T W 10.]
- 325a *Latin-American History.* The development of Mexico, Argentina, and Brazil in the nineteenth and twentieth centuries. An analysis of their political, social, and economic problems. Open to sophomores by permission of the instructor. Th F S 10. Mr Ruiz.
- [327b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T W 11.]
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in history above Grade I. *Two or three hours.*

Undergraduate Seminars

These courses are limited to twelve students and are open with the permission of the instructors to seniors, and to juniors who have completed a second course in

HISTORY

history. They will ordinarily meet each week for two hours, counting as *three*. In special cases honors students may be permitted to take a seminar for *six* hours credit.

- 43b *The Hellenistic Age*. Studies in the formative ideas and institutions of the period from Alexander the Great to the founding of the Roman Empire. Mr Cohn-Haft.
- 44b *Medieval France and England*. Mr Caspary.
- [46a *The Renaissance in Italy and its Reflection in Art*. Open to majors in history and art. Th 3. Miss Gabel, Mrs Kennedy.]
- 47b *England, Europe, and the World in the Sixteenth and Seventeenth Centuries*. M 3-5. Mr Mendenhall.
- 48a *Revolution and Dictatorship*. The French Revolution and Napoleon. T 4. Mrs Hoyt.
- [49b *Modern Britain*. T 7:30. Miss Wilson.]
- 410a *Modern Europe*. The analysis of a few major problems in Europe in the nineteenth and twentieth centuries, with particular attention to the growth and decline of free institutions. Mr Salvadori.
- 411a *Romanticism and Liberalism*. Main currents of thought in the first half of the nineteenth century, with special attention to their influence on the political developments during this period. Alternates with 37b. Th 7:30. Mrs Koffka.
- 411b *Modern Germany*. Th 4. Mr von Klemperer.
- [412b *The Russian Revolutionary Tradition in the Nineteenth and Twentieth Centuries*. A study of the Russian intelligentsia, its ideas, and its changing functions in society. Alternates with 411b. Th 4. Mr von Klemperer.]
- [413b *Capitalism in Europe from the Industrial Revolution to the Crisis of 1929*. Alternates with 316b. Mr Salvadori.]
- [414b *Race, Nationality, and Religion in American History*. Mr Mann.]
- 415a *Anglo-American Radicalism, 1865-1914*. Mr Jones.

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[415b *United States Foreign Policy since 1898.* The seminar will concentrate on the Far East and its problems. Th 4. Mr Sheehan.]

420b *Inter-American Affairs.* Latin America and the United States since 1900. Selected topics. Mr Ruiz.

425a *Problems in the Intellectual History of China and Japan.* Alternates with 318a. M 4. Mr MacSherry.

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics. Government, History, and Sociology.* Modern Capitalism. Mr Brotz, Miss Hadley, Mr Mallan.

Graduate Seminars

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Special problems in advanced work in history, arranged individually with graduate students. *One hour or more.*

[55b *Modern European History.* A study of main developments in the social and political life of European nations, with special regard to the twentieth century. Mr Salvadori.]

[56b *Early American History.*]

57a *American History.*

58a *Modern Imperialism.* Selected Topics.

Adviser of graduate study: Mr Cohn-Haft.

THE MAJOR

Advisers: Miss Gabel, Mrs Koffka, Mr Sheehan, Mr MacSherry, Mr Mann, Mr Cohn-Haft, Mrs Hoyt, Mr Ruiz, Mr Caspary, Miss Herbert.

Based on 11, 12, 13, or an equivalent course. Students who have been exempted from the distribution requirement in Group D are expected to take six semester hours in the Department in their first two years if they wish to major in history.

Essential Courses: 30a and eighteen hours in history.

Optional Courses: nine semester hours in history or in related departments.

The Senior examination will assume some preparation, at least three semester hours, in each of the following fields: Europe before 1700; Europe after 1700; American History.

HISTORY

Major programs may be arranged to correlate work in history and related subjects in such broad fields as ancient civilization, medieval or Renaissance studies, modern Europe, or area studies (e.g., the Americas).

Attention is called to the Interdepartmental Major in American Studies.

HONORS

Director: Miss Garsoian.

Prerequisites: two courses in history or one course in history and one in a field appropriately related to the honors program.

Program: the fixed requirements for all candidates will consist of a minimum of twenty-four semester hours in history, plus six semester hours in history or in appropriately related courses in other departments. The required twenty-four semester hours in history will include: (1) at least six semester hours in units or undergraduate seminars offered by the Department; (2) the unit, *History and Historians*, and (3), in the senior year, a long paper.

Examinations: (1) a general examination assuming some preparation* in each of the fields—Europe before 1700, Europe since 1700, American history; (2) an examination on historical literature and method; (3) a special examination in one of the following fields: ancient, medieval, early modern to 1789, Europe since 1789, American, Imperialism, and the Far East. Students will construct their programs with this distribution and emphasis in mind.

*i.e., at least a semester course devoted largely to the field concerned.

Units

History and Historians (introductory unit). A study of great historians and of the development of historical thought. First semester. M 7:30. Members of the Department, Mrs Hoyt (Director).

[*Ancient Greece*. First semester. Alternates with 23b. Mr Cohn-Haft.]

Medieval Europe. Second semester. Mr Packard.

The Later Roman Empire (300-800). (Studies in the transition between the Ancient and Medieval World.) First semester. Miss Garsoian.

The Age of the Renaissance. First semester. Miss Gabel.

[*Western Europe in the Seventeenth Century, or England in the Sixteenth and Seventeenth Centuries*. First semester. Miss Wilson.]

[*Eighteenth-Century Europe*. Political, social, and economic problems. Second semester. Mrs Hoyt.]

Modern Europe. Second semester. Mr von Klemperer.

[*American History Topics in the Westward Movement*. Second semester.]

Race, Nationality, and Religion in American History. First semester. Mr Mann.

Recent Interpretations of American History. Second semester. Mr Sheehan.

ITALIAN LANGUAGE & LITERATURE

PROFESSORS:	MICHELE FRANCESCO CANTARELLA, A.M. RUTH ELIZABETH YOUNG, A.M., <i>Chairman</i>
INSTRUCTORS:	ANNA M. MARTELLONI, DOTTORE IN LETTERE FRANCA LOLLI, DOTTORE IN LETTERE

The course in Italian which may be taken to fulfill the distribution requirement in Group A is 26.

It is recommended that students planning to major in Italian take History 11 and Philosophy 11 or 24. Those planning to spend the junior year in Italy are urged to take Art 11 in the freshman or sophomore year.

11D or 12 is the prerequisite for 26 and all grade III courses.

11 *Elementary Course.* Five class hours. M T W 9, 12, two hours to be arranged. Miss Young, Miss Martelloni.

11D *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 9, 11; two additional hours to be arranged for conversation in place of some preparation. Miss Young, Miss Martelloni. (L)

12 *Intermediate Course.* Reading from modern Italian literature, with grammar and composition, followed by a survey of Italian civilization. Prerequisite, two units in Italian or 11. M T W 11. Mr Cantarella. (L)

26 *Survey of Italian Literature.* Reading of outstanding works, with cultural and social background. Miss Young. (L)

31a *Advanced Composition.* Miss Martelloni.

31b *Advanced Translation into English.* Miss Young.

36 *Dante: Vita Nuova, Divina Commedia.* M T W 10. Mr Cantarella.

[37 *Major Literary Figures of the Italian Renaissance.* Miss Martelloni.]

[38 *Literature of the Eighteenth and Nineteenth Centuries.* Mrs Lolli.]

39 *Contemporary Literature.* Mr Cantarella.

40b *Directed Reading and Review.* Members of the Department.

MATHEMATICS

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Italian. *Two or three hours.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced Studies. *One hour or more.*

Adviser of graduate study: Mr Cantarella.

THE MAJOR

Adviser: Miss Young.

Based on 11b or 12.

Essential Courses: 26, except for those who spend the junior year in Italy, 36, 40b, and one other course of Grade III.

Optional Courses: closely related courses in allied fields such as history, literature, art, and music.

HONORS

Director: Miss Young.

Prerequisite: 11b or 12.

Program: to be arranged with the director; three hours on an independent piece of work.

Examinations: one on the general field of literature; one on the field of specialization; one on linguistic preparation.

MATHEMATICS

PROFESSOR:

NEAL HENRY MCCOY, PH.D., *Chairman*

VISITING LECTURER:

¹WILLIAM H. DUFEE, PH.D.

ASSISTANT PROFESSORS:

BERT MENDELSON, PH.D.

ALICE B. DICKINSON, PH.D.

WALLACE S. MARTINDALE, 3RD, PH.D.

Students planning to take courses in mathematics are expected to offer at least three units of mathematics for entrance; those planning to major in mathematics are advised to take in the first two years Mathematics 12, 21a, 21b or 13, 22a, 22b. A course in astronomy or physics is also recommended. For additional preparation for honors work, see the honors program.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group F by taking Mathematics 12 or 13.

MATHEMATICS

- 12 *Mathematical Analysis.* Trigonometry; analytic geometry; elements of calculus. Prerequisite, three units of mathematics not including trigonometry. Th F S 9. Mr McCoy.
- 13 *Analytic Geometry and Calculus.* Prerequisite, at least three units of mathematics including trigonometry. M T W 10, 2, 3; Th F S 9. Members of the Department.
- 21a, 21b *Differential and Integral Calculus.* Prerequisite, for 21a, 12; for 21b, 21a. Th F S 10. Mr Martindale.
- 22a, 22b *Differential and Integral Calculus.* Prerequisite, for 22a, 13; for 22b, 22a. M T W 10, 11. Mr Mendelson, Mrs Dickinson.
- 31a *Intermediate Calculus.* Topics from calculus including multiple integration, infinite series, and partial differentiation. Prerequisite, 21b. M T W 9. Mr McCoy.
- 31b *Differential Equations.* Solution and application of ordinary differential equations. Prerequisite, 22b or 31a. M T W 11. Mr Martindale.
- [32b *Differential Geometry.* Differential geometry of curves and surfaces in three dimensions. Prerequisite, 22b or 31a. M T W 2. Mr Mendelson.]
- 33a, 33b *Higher Algebra.* Topics from the theory of equations, and an introduction to modern abstract algebra. 33a for students who have passed or are taking 21a or 22a; prerequisite for 33b, 33a. M T W 10. Mr McCoy.
- [34a *Projective Geometry.* Prerequisite, 12 or 13. M T W 10. Mr Mendelson.]
- [35b *Theory of Numbers.* Properties of integers including divisibility, theory of congruences, primitive roots, theorems of Fermat and Wilson. Prerequisite, three semester hours of Grade III in mathematics or permission of the instructor. Th F S 9. Mr McCoy.]
- [37a *Topology.* Point set topology, the real line, metric spaces, abstract topological spaces; combinatorial topology, theory of graphs, abstract complexes, fixed point theorems. Prerequisite, 22b or 31a. M T W 11. Mr Martindale.]
- 39a *Theory of Probability.* An introduction to the mathematical theory of probability including combinatory analysis, simple and conditional probability, binomial and normal distributions. For students who have passed or are taking 21a or 22a. M T W 2. Mr Mendelson.
- 39b *Mathematical Statistics.* An introduction to the mathematical theory of statistics, including a discussion of random variables, mathematical expectation, convergence in probability, and statistical inference. Prerequisite, 39a.

MATHEMATICS

40b Seminar. Mr McCoy.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in mathematics. *Two or three hours.*

43 *Advanced Calculus.* Open to juniors. Prerequisite, 22b, or 31a. M T W 9. Mrs Dickinson.

48 Honors paper, review, and coordination. For seniors.

50, 50a, 50b Research and Thesis. *Three or six hours.*

52a, 52b *Special Studies in Topology and Analysis.* *One hour or more.*

53a, 53b *Special Studies in Modern Geometry.* *One hour or more.*

54a, 54b *Special Studies in Algebra.* Theory of numbers, theory of groups, matrices and determinants, and modern algebraic theories. *One hour or more.*

Adviser of graduate study: Mr Mendelson.

THE MAJOR

Advisers: Mr McCoy, Mr Mendelson.

Based on 12 or 13.

Essential Courses: 21a, 21b, 31a or 22a, 22b; 40b, and other courses in mathematics, making a total of twenty-one semester hours.

Optional Courses: other courses in mathematics.

Astronomy, courses above Grade I except 21b and FC 24b.

Physics, courses above Grade I.

Economics 28a, 38b; Chemistry 32; Philosophy 21a or b, 31b.

HONORS

Director: Mr McCoy.

Prerequisites: 12 and 21a, 21b, 31a, or 13 and 22a, 22b.

Program:

Essential Course: 48.

Optional Courses: other courses in mathematics or courses in related fields chosen in consultation with the director.

Examinations: one will cover the common background of all majors, two will test the field of specialization.

MUSIC

PROFESSORS:	JOHN WOODS DUKE SOLON ROBINSON DORIS SILBERT, A.M. ALVIN DERALD ETLER, MUS.B. GERTRUDE PARKER SMITH, A.M., <i>Chairman</i> LOUISE MILES ROOD, M.A. **RAYMOND PRENTICE PUTMAN
VISITING LECTURER:	HENRY GEORGE MISHKIN, PH.D.
ASSOCIATE PROFESSORS:	BIANCA DEL VECCHIO, DIPLOMA DI MAGISTERO MARION DERONDE, A.B. IDA DECK HAIGH †PHILIP KEPPLER, M.F.A.
DIRECTOR OF CHORAL MUSIC:	IVA DEE HIATT, M.A.
ASSISTANT PROFESSORS:	VERNON DETWEILER GOTWALS, JR., M.F.A. GABRIEL BANAT, M.MUS. DOROTHY STAHL, B.MUS.
INSTRUCTORS:	ADRIENNE AUERSWALD, A.B. EDWIN LONDON, M.A., M.F.A.
ASSISTANT IN CHORAL MUSIC:	CHARLES K. FASSETT, B.A.
FACULTY FELLOW:	VIRGINIA MCNAIR GRIFFITH, A.B.
CURATOR:	RUTH MARGARET AGNEW, M.A.

The courses in music which may be taken to fulfill the distribution requirement in Group B are 13, 23. However, if a student is considering a major in the Department, 13 is not advised.

A. Composition

- 11 *Elementary Course.* Basic materials of composition. Sight-singing, ear-training, and exercises in one- and two-voice writing. Three class hours. *Two hours each semester.* M T W 12; Th F S 10, 11. Miss Smith (*Director*), Mr Etler, Mr London.
- 21 *Intermediate Course.* Materials of composition, continued. Exercises in three- and four-part writing. Prerequisite, 11. *Two hours each semester.* Juniors (and others by permission) may elect a third hour, with an added class hour to be arranged. Th F 10, 11, Miss Rood. Third hour, Mr London.
- 33 *Composition in Small Forms.* Prerequisite, 21. Mr Etler.
- 42 *Composition for Small Instrumental Groups.* Prerequisite, 33. Mr London.

MUSIC

B. Literature

Unless otherwise stated the prerequisite for Grade III courses in this division is 23.

- 13 *An Introduction to Music.* First semester, observation of the elements of music and musical form. Second semester, a consideration of musical styles from the Renaissance to the present. No previous training in music is required. This course may not be taken as the theory requirement by students receiving credit for practical music. M T 4 and a third hour to be arranged for sections. Mr Mishkin.
- 23 *General History of Music.* Prerequisite, 13 or 11. M T W 9. Miss Silbert.
- 30a *Tonal Organization.* Practice in analytical techniques. Prerequisite, 21. M T W 10. Miss Smith.
- 34b *Solo Song.* Study of representative works to 1920. M T W 10. Miss Smith.
- 35a *Symphonic Developments in the Nineteenth Century.* Qualified students may be admitted on the basis of 13 or 11 by permission of the instructor. W Th F 3. Miss Rood.
- 35b *Nineteenth-Century Opera.* Main trends in Romantic opera. Qualified students may be admitted on the basis of 13 or 11 by permission of the instructor. W Th F 3. Mr London.
- 37b *Bach, Handel, and Their Contemporaries.* Study of representative vocal and instrumental works. M T W 11. Miss Rood, Mr Gotwals.
- 38a *Haydn and Mozart.* M T W 9. Mr Gotwals.
- 311a *Chamber Music in the Nineteenth Century.* M T W 12. Miss DeRonde.
- [313b *The Literature of the Pianoforte.* M T W 12. Mr Duke.]
- 41, 41a, 41b Special Studies in the theory and literature of music. By permission of the Department for senior majors who have had twelve semester hours above Grade I in music. *Two or three hours.*
- 43a *Music in the Sixteenth Century.* The mass, motet, madrigal, and chanson from Josquin through Byrd. M 3-5. Miss Smith.

- [44b *Studies in the Criticism of Music.* Various aspects as represented in important literary works. Two class hours. Miss Silbert.]
- 45b *Modern Music.* Prerequisite, 30a. Mr Etler.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged on consultation with the Department. *One hour or more.*
- [52a Special Studies. Special studies in eighteenth-century instrumental music. Mr Keppler.]
- 53a *Precedents for Contemporary Procedures.* Mr Etler.
- 53b *Music in the Fourteenth and Fifteenth Centuries.* Representative examples of sacred and secular composition from Machaut and Landini to Josquin. Miss Smith.

C. PRACTICAL MUSIC

Courses are offered in the technique and representative literature of the piano, organ, harpsichord, voice, violin, viola, violoncello, flute, oboe, clarinet, bassoon, and French horn, and in instrumental ensemble and conducting. There are fees for all courses involving individual instruction and for the use of practice rooms. These fees are listed on page 165 of the *Catalogue*.

Students taking practical music (Division C) to be counted must take and pass at least an equal number of credit hours from Division A or B (except 13). Exception is made for juniors and seniors who are not music majors who take the Grade III and IV courses above the minimum fifteen hour program. (See below.) Any course in Division C and its accompanying course in Division A or B may be counted together as one of the required number of three-hour courses, but each course will receive its full credit.

Courses of Grade I and II normally require one hour of individual instruction and six hours of practice per week and receive *two hours* of credit each semester; but they may, when taken in conjunction with composition 33 or 42, or when taken by junior or senior majors, require nine hours of practice per week and receive *three hours* of credit each semester. *Additional exceptions:* Music 141 and Instrumental Ensemble.

Courses of Grades III, IV, and V, if counted within the minimum fifteen-hour program, will require one hour of individual instruction and nine hours of practice and receive *three hours* of credit each semester.

MUSIC

Qualified students may divide the course, combining two hours credit in one instrument with one hour credit in ensemble.

For juniors and seniors who are not music majors courses of Grades III and IV carrying *two hours* credit are available if taken above the minimum fifteen hour program. These students must have the permission of the instructor and a grade of B or above in the previous course.

No student in practical music will be admitted to a course above Grade II who has received a mark lower than C in the previous course in the same branch.

Before registering for any course in practical music the student must consult members of the Department at the College in May or during the days just previous to the beginning of the first semester.

VOICE, STRINGED INSTRUMENTS, WIND INSTRUMENTS. Beginners are accepted in these branches on the basis of requisite musical aptitude. The instructor of the specific course should be consulted at the times indicated above. Candidates applying for scholarship aid in these courses must perform a piece of their own choice.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J.S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

ORGAN. The prerequisite for organ courses is Music 121 or its equivalent.

Piano. 121, 222, 323, 424, 525. Mr Duke, Mr Robinson, Mr Putman, Miss del Vecchio, Mrs Haigh.

Organ. 232, 333, 434, 535. Mr Gotwals.

Harpsichord. 303, 404. Prerequisite, 222 or 232 and permission of the instructor. Miss Silbert.

Voice. 141. This course will require two class hours, one half-hour lesson, and four hours of practice per week. *One hour each semester.* M T 11; Th F 12.

242, 343, 444, 545. Miss Stahl, Miss Auerswald.

Violin. 151, 252, 353, 454, 555. Mr Banat.

Viola. 161, 262, 363, 464, 565. Miss Rood.

Violoncello. 171, 272, 373, 474, 575. Miss DeRonde.

MUSIC

Woodwind Instruments. 181, 282, 383, 484, 585. Mr Etler (*Director*), oboe; Mr Grass, flute; Mr Lynes, clarinet; Mr Hebert, bassoon; Mr London, French horn.

Instrumental Ensemble. 191a, 191b, 292a, 292b, 393a, 393b, 494a, 494b. Open to qualified students who are studying their instruments. These courses require one hour lesson and three hours of practice per week. *One hour each semester.* Miss DeRonde.

321a *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students, by permission of the instructor. Prerequisite, 21 or 23. Two class hours. *One hour.* T 4-6. Miss Hiatt.

321b *Orchestral Conducting.* A study of baton technique and of selected orchestral literature. Prerequisite, 21 or 23; recommended background, 35a. Two class hours. *One hour.* T 4-6. Miss DeRonde.

THE MAJOR

Advisers: Miss Rood, Mr Gotwals.

Based on 11.

Essential Courses: 21, 23, 30a and nine semester hours above Grade II.

Students majoring in Music will be required to pass a general examination at the end of the senior year. The examination will test analytical, historical, and critical competence in dealing with music of various periods.

Optional Courses: related courses in other fields.

HONORS

Director: Mr Gotwals.

Prerequisites: 11, 21, 23.

Program: students will fulfill the requirements of the major, present a paper, and take a minimum of nine semester hours in other departments. Apart from these requirements the program will be planned with the director to meet individual needs.

Examinations: one general comprehensive; one involving critical analysis on a limited field of concentration in literature or composition; one oral.

Adviser for graduate study: Miss Smith.

PHILOSOPHY

PROFESSORS:	ALICE AMBROSE LAZEROWITZ, PH.D., LL.D., <i>Chairman</i> MORRIS LAZEROWITZ, PH.D. DOROTHY WALSH, PH.D.
VISITING LECTURER:	² WILLIAM ELMER KENNICK, PH.D.
ASSISTANT PROFESSOR:	†STEN HAROLD STENSON, PH.D.
INSTRUCTORS:	DAVID SHOTWELL SCARROW, PH.D. ROSALIND EKMAN, A.M.

The courses in philosophy which may be taken to fulfill the distribution requirement in Group C are 11, 22, 24, 33.

- 11 *Introduction to Philosophy.* Reading and discussion of some of the most important classic and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. M T W 9, 10, 11; Th F S 10. Mrs Lazerowitz, Miss Walsh, Mr Scarrow.
- 21a *Logic.* Introductory course, including study of common fallacies in reasoning, theory of the syllogism, and some modern developments. The course is intended to train the student in effective use of principles of correct thinking. Th F S 9. Mrs Lazerowitz.
- 21b Repetition of 21a. Open to freshmen by permission of the instructor. M T W 12. Mr Lazerowitz.
- 22 *Ethics.* The outstanding moral theories of classical and modern times, with applications to practical problems. Reading will include literature of the Epicureans and Stoics, Aristotle, Kant, Bentham, Mill, Nietzsche, G.E. Moore, the Existentialists. Th F S 9. Miss Ekman.
- 24 *History of Philosophy from Thales to Kant.* Introduction to philosophy, with emphasis on its historical development. The course should be of use also to students majoring in other fields who wish to obtain an acquaintance with the history of ideas. M T W 11; Th F S 10, 11. Mr Lazerowitz, Miss Ekman.
- 31b *Advanced Logic.* Postulate sets. The system of *Principia Mathematica*: general propositions; definite descriptions; classes and the theory of types. Prerequisite, 21a or b. Mrs Lazerowitz.
- [32a *Metaphysics and Language.* Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories which closely resemble scientific theories: theories of time, space,

PHILOSOPHY

- substance, causality and freedom, universals, a priori propositions. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.]
- 32b *Epistemology*. General explanation of a new linguistic technique for the solution of philosophical problems. Its application to epistemological and closely related problems: our knowledge of the external world, other minds, the mind-body problem, rationalism and empiricism. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.
- 33 *Aesthetics*. A discussion of problems. Topics dealt with include sensuous structure, emotional expression, symbolism, artistic meaning, truth, value, judgments of appraisal. M T W 9. Miss Walsh.
- 35a *Kant*. A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Prerequisite, 11 or 24. Mr Lazerowitz.
- 36b *Plato*. Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Given in alternate years. Open to sophomores. Prerequisite, 11 or 24. M T W 12. Mr Scarrow.
- 37a *Philosophy of Religion*. A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dille.
- [37b *Hegel and Hegelianism*. A historical and critical study of Hegel, the man, and his doctrine, his rivals, followers, and opponents. Given in alternate years. Prerequisite, 24.]
- 310a *American Philosophy*. Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M T W 12. Mr Scarrow.
- 311a *Recent and Contemporary Philosophy*. Bradley, Russell, G. E. Moore. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Mrs Lazerowitz.
- 311b *Recent and Contemporary Philosophy*. Ayer, Wittgenstein, Wisdom, Austin. Prerequisite, 24. Th 4-6 and an hour to be arranged. Mr Kennick.
- 314a *Philosophical Arguments*. A critical examination of selected philosophical arguments, drawn from the history of philosophy, including the recent past, and of the positions which they purport to establish. The central aim will be to explain the nature of the arguments. Special attention will be given to antinomies. T 3:30-5:30. Mr Lazerowitz, Smith College, and Mr Kennick, Amherst College.

PHILOSOPHY

- 40b Directed reading and papers for seniors majoring in the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in philosophy. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged individually.
- [53 *A Systematic Study of Aesthetic Theory.* Miss Walsh.]
- [55a *Topics in Logical Theory.* With special reference to foundations of mathematics. Mrs Lazerowitz.]
- [56b *Contemporary Ethics.*]
- Adviser of graduate study: Mr Lazerowitz.

THE MAJOR

Adviser: Mr Lazerowitz.

Based on six semester hours in philosophy.

Essential Courses: twenty-one semester hours in philosophy, including 24 (unless used as the basis of the major) and 40b.

Optional Courses: related courses in other departments.

HONORS

Director: Mr Lazerowitz.

Prerequisites: any year course in philosophy of Grade I or Grade II; in addition 21a or b and Psychology 11a and b or 12 are advised. For other prerequisites for specific programs the director should be consulted.

Program: the requirements for all candidates will consist of a minimum of twenty-four hours in philosophy, plus six hours in philosophy or in a related field. The work in philosophy shall normally include two units or seminars.

Examinations: one on philosophical systems and history of philosophy; one on value theories and methodology; one on some special topic in philosophy or in a related field.

Units

Aesthetics. Six hours. First semester. Miss Walsh.

Logic (Theory of Probable Inference). Three hours. Second semester. Mrs Lazerowitz.

Ethics. Three hours. Second semester. Miss Walsh.

[*British Empiricism.* Three hours. First semester.]

PHYSICAL EDUCATION

ASSOCIATE PROFESSORS:	JANE ADELE MOTT, PH.D., <i>Director</i> FLORENCE MARIE RYDER, M.S. **ANNE LEE DELANO, A.M.
ASSISTANT PROFESSORS:	RITA MAY BENSON, M.S. IN H.P.E. MARTHA COLEMAN MYERS, M.S. IN PHY. ED. CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. EUNICE ELLEN WAY, PH.D. JEAN CAMPBELL, M.S. IN PHY. ED.
LECTURER:	RUTH EVANS, A.M., M.P.E. (HON.), SC.D. (HON.)
INSTRUCTORS:	MARTHA CLUTE, A.M. JANET MARIE EMERY, B.S. IN ED. KATHERINE AMSDEN, M.S. IN PHY. ED. GEORGIA MARIE SHAMBES, M.S. IN PHY. ED. PHYLLIS ANNE HOFF, M.S. IN PHY. ED. CAROLYN ANN STEARNS, A.B. NEILL LAURY KELLER, A.B. PATRICIA MARIA PETERSON, M.S. IONE GENEVIEVE SHADDUCK, B.S. LANETTA TUGGLE WARE, B.S. IN PHY. ED.

Physical Education 1a and b and 2a and b are required of all students in the first two years, the type of work being adjusted to the abilities, needs, and conditions of individual students. Continuous failure in these courses because of lack of interest or unexcused absences may result in the student's being requested by the President to withdraw from college.

All students who are in physical education classes or use the gymnasium are required to buy uniform suits and shoes.

The Athletic Association, open to all members of the College, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

1a, 1b *Basic Motor Skills, Dance, and Sports*.¹ Three periods of one hour each. Required for freshmen.

Fall Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

¹A small fee is charged for badminton, campcraft, golf, skiing, and tennis. In riding, fees cover the rental of horses.

PHYSICAL EDUCATION

Archery, canoeing, crew, golf, hockey, riding, soccer, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern Dance. Mrs Myers, Miss Stearns.

Folk Dance. Miss Emery.

Winter Term. One period, basic motor skills; two periods, a choice of:

Badminton, basketball, bowling, fencing, riding, squash, swimming, skiing, tumbling and apparatus. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

The dance, continuing the fall courses and new sections. Mrs Myers, Miss Stearns.

Folk Dance. Miss Emery.

Spring Term. Three periods, beginning swimming for those who have not passed the test; for others a choice of:

Archery, campcraft, canoeing, crew, golf, lacrosse, riding, softball, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern dance, continuing the fall and winter courses and new sections. Mrs Myers, Miss Stearns.

2a, 2b *Dance and Sports*. Three periods of one hour each. Required for sophomores.

Each term a choice of sports and dance as listed under the corresponding term for 1a and b.

A health consultation is required for juniors and seniors, and any student who is falling below a standard which for her is reasonable must take work under the direction of the Department as follows:

3a, 3b Required for these juniors.

4a, 4b Required for these seniors.

Elective Classes and Sports

Juniors and seniors may elect work in any class listed above or in the sports sections for upperclassmen.

In addition there are riding trips under the Riding Club, open-hour swimming at the pool, Outing Club trips, and special sports and dance events.

Courts and other equipment are available to all students when not being used by classes.

B. The Graduate Course in the Training of Teachers of Physical Education.

This course is open to students of Smith College and to graduates of other colleges of approved standing. Students entering it will be given the opportunity to specialize

PHYSICAL EDUCATION

in one of four fields: adapted physical education, the dance, recreation (physical education in relation to community service and clubs), sports (in relation to schools and colleges).

The course has as its basic plan classes in science and education as well as physical education. Smith College students may take the scientific and educational courses as undergraduates and in so doing will be able to fulfill the requirements for the degree in one year after graduation.

Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Six semester hours of zoology, nine hours of education, and six hours in one of the following: bacteriology, chemistry, experimental psychology, mathematics, nutrition, physics, zoology should be offered as prerequisites. Students who have satisfactorily completed these courses and the equivalents of Physical Education 33a and b, 42a and b, and 43a and b may become candidates for the degree in the first year; other students normally require two years.

Students who wish to enter the course should present a written statement from a physician that they are in good condition and able to undertake a course in physical education. For further information write to Miss Mott, Scott Gymnasium, for the special booklet describing the course.

33a, 33b *Adapted Physical Education*. The basic teaching material of preventive and corrective phases of physical education as applied to individual developmental needs. M T W 12. Miss Ryder.

42a, 42b *Methods and Materials of Physical Education*. Elementary course including the dance, recreation, and sports. Required in the first year of students entering from other colleges who have not fulfilled the requirement elsewhere. Open to undergraduates only by permission of the Director of Physical Education. Prerequisite for 42b, 42a. Two lectures, six hours of practice. Members of the Department.

43a, 43b *The Physiology and Anatomy of Movement*. An analytical study of human motor activity. Prerequisites, Zoology 12 and permission of the Director of Physical Education. Two one-hour lectures and four hours of laboratory. Lec. Th F 11; lab. Th F 9-11. Miss Ryder.

50, 50a, 50b Research and Thesis. *Three or six hours*. Miss Mott, Miss Way.

51a, 51b Special Studies in (1) Research, (2) Administration, (3) Recreation, (4) Dance, (5) Adapted Physical Education, (6) Current Problems in Physical Education. Members of the Department.

52a, 52b *Methods and Materials of Physical Education*. Advanced course offering opportunity for the student to specialize in adapted physical education, the

PHYSICS

dance, recreation, or sports. Theory, two hours; practice, six hours. Members of the Department.

53a, 53b *Gymnastics and Basic Motor Skills*. Theory, one hour; practice, two hours. One hour. Miss Ryder, Miss Delano.

54a or b *Elementary Measurement in Physical Education*. Miss Mott.

55a *History and Principles of Physical Education*. Miss Evans.

55b *Organization and Administration of Physical Education*. Miss Mott.

56a, 56b *Directed Practice in the Teaching of Physical Education*. Miss Delano.

57a or 57b *Advanced Measurement in Physical Education*. History and methods of testing. Use of statistics and study of special problems. Miss Mott.

PHYSICS

PROFESSORS:	NORA MAY MOHLER, PH.D., SC.D. (HON.) WILLIAM TAUSSIG SCOTT, PH.D.
RESEARCH PROFESSOR:	GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)
VISITING RESEARCH PROFESSOR:	DOROTHY WRINCH, D.SC. ¹ PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC., A.M. (HON.)
WILLIAM ALLAN NEILSON	
RESEARCH PROFESSOR:	JESS J. JOSEPHS, PH.D., <i>Chairman</i> ADAM HENRY SPEES, PH.D.
ASSOCIATE PROFESSORS:	PHEBE HAZEL FERRIS COLLINS, A.M. MARJORIE EBERHARDT COOK, M.S., M.A.
INSTRUCTOR:	FRANCES KATHERINE DURKAN, B.S.
ASSISTANT:	
TEACHING FELLOW:	HSIU-LI WU, B.S.
RESEARCH FELLOW:	

Among the courses which may be taken to fulfill the distribution requirement in Division III are Physics 11, 15, Physical Science 193.

Students who enter with a unit in physics may elect Physics 15 or Physical Science 193.

Students planning to major in physics are advised to elect courses in both physics and mathematics in freshman year.

- 11 *Fundamentals of Physics*. An introduction to the laws and properties of matter, from the standpoint of mechanics, heat, sound, electricity, light, and atomic structure. Lecture, demonstration, and discussion, three hours; laboratory, two hours. Lec. and dis. M T W 10, 11; lab. M T 2, F 9, 11. Miss Mohler, Mr Scott, Mrs Collins, Miss Durkan.

- 15 *Intermediate General Physics.* A course covering the same subject matter as 11, but for students who have presented a unit in physics or have passed Physical Science 193 or 194. Open by permission of the instructor to juniors and seniors majoring in other sciences. Three lectures and one three-hour laboratory period. Lec. Th F S 11; lab. T Th F 2. Mr Spees, Mrs Collins.
- 21a *Introduction to Atomic and Nuclear Physics.* The experimental evidence concerning atomic structure, the problem of the nucleus, and cosmic ray physics will be presented, with emphasis on the shift in point of view from classical to modern physics. Three hours of lecture and discussion. Prerequisite, 11 or 15. (For students not planning to major in physics.) M T W 9. Miss Mohler.
- 24a *Electricity and Mechanics.* A laboratory course in intermediate electricity and mechanics. Not open to students who have taken 15. Prerequisite, 11. One discussion and two three-hour laboratory periods. Dis. Th 11; lab. Th F 2. Miss Mohler.
- 24b *Optics.* Physical and geometrical optics. Prerequisite, 11 or 15. One discussion and two three-hour laboratory periods. Dis. Th 11; lab. Th F 2. Miss Mohler.
- [26b *Musical Acoustics.* An introduction to the study of sound, particularly as it applies to musical instruments and hearing. Lecture and demonstration. One hour. Mr Josephs.]
- 31a, 31b *Electronics.* A semester of experiments in electronics leading to some independent work. Prerequisites, 15 or 24a and Mathematics 21a or 22a. (Mathematics 12 or 13 may be substituted on permission of the instructor.) Two three-hour laboratory periods. T Th 2. Mr Josephs.
- 32a *Mechanics.* Statics and dynamics of particles and rigid bodies. Prerequisites, 11 or 15 and Mathematics 21b or 22b. Th F S 9. Mr Spees.
- 33a *Atomic Physics.* The particle and wave nature of matter and radiation; atomic structure; introduction to relativity theory. Prerequisites, 15 or 24a, or 11 with permission of the instructor, and Mathematics 21a or 22a. W Th F 12. Mr Josephs.
- 33b *The Nucleus.* An introduction to radioactivity, elementary particles, cosmic rays, and nuclear structure and energy. Prerequisite, 33a. W Th F 12. Mr Josephs.
- 34a, 34b *Modern Physics Laboratory.* A semester of experiments in atomic and nuclear physics, including properties of electrons, radioactivity, X-rays, gaseous discharges, cosmic rays, etc. Two three-hour laboratory periods. Prerequisite, 31a or 31b. Th F 2. Mr Spees.

PHYSICS

- 35a *Causality*. An elementary study of Newtonian mechanics, and its historical development. The Laplacean ideal of the universal world machine and the development of mechanistic determinism. The wave-particle dualism and an introduction to the concepts of quantum theory, including the Heisenberg uncertainty relation and Bohr's notion of complementarity. The present status of causality, determinism and the relation of mathematics to nature, in the light of modern theories of scientific knowledge. Prerequisite, a college course in physics, or Physical Science 193. Open to students presenting an entrance unit in physics with permission of the instructor. Lectures and discussions. M T W 10. Mr Scott.
- 40b *The Relation of Classical and Modern Physics*. Discussion of the development of such general laws as the conservation of energy and the law of gravitation; the relation between Newtonian mechanics and relativity and between classical and quantum physics; current philosophical problems in physics. Discussion and reports. For seniors only. One two and one-half hour period. Members of the Department.
- 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in physics. If taken in the field of physics teaching, may be elected by physical science and physical-science-and-education majors, by permission of the department. *Two or three hours.*
- 42 *Advanced Electricity and Magnetism*. Static and dynamic electricity, direct and alternating currents, magnetism and electromagnetic fields, principles of electrochemistry, and of electromagnetic radiation. Prerequisites, 15 or 24a and Mathematics 21b or 22b. M T W 2. Mr Scott.
- 46b *Heat and Thermodynamics*. A discussion of the laws of heat and thermodynamics, including entropy and the behavior of ideal and real gases. Prerequisites, 15 or 24a and Mathematics 21b or 22b. Th F S 9. Mr Spees.
- [47a, 47b *Atomic and Molecular Spectra*. Theory and experiments including applications to other sciences. Prerequisites, 24b, or permission of the instructor, and Mathematics 21b or 22b. One hour of lecture and discussion and two three-hour laboratory periods.]
- 50, 50a, 50b *Research and Thesis*. *Three or six hours.*
- 51a, 51b *Special topics in such fields as electricity and magnetism, statistical mechanics, cosmic rays, solid state physics, and low temperature physics*. *Two or three hours.*

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52a, 52b Selected problems assigned for investigation, experimental work, and discussion. *Three hours or more.*

53a, 53b *Principles of Mathematical Physics.* Mr Scott.

54a, 54b *Introduction to Quantum Mechanics.* Mr Josephs.

55a, 55b *Seminar in Nuclear Physics.* *Two hours or more.* Mr Scott.

[58a, 58b *Advanced Spectroscopy.*]

59a *Structure of Large Molecules.* Physics, chemistry, and geometry of biologically active molecules. *One hour or more.* Mrs Wrinch.

Adviser of graduate study: Mr Scott.

THE MAJOR

Advisers: Miss Mohler, Mr Spees.

Based on 11 or 15.

Essential Courses: 31a or b, 33a and b, 24b or 34a or b, 40b; Mathematics 21a and b, or 22a and b.

Optional Courses: other courses in physics and mathematics above Grade I, and courses in astronomy, chemistry, and geology.

In addition to the essential courses, each student is expected to receive instruction in shop techniques in a two-hour period for one semester.

HONORS

Director: Mr Josephs.

Prerequisites: Physics 11 or 15, and Mathematics 21b or 22b. One or two other courses in mathematics, physics, or chemistry, and a reading knowledge of French or German are advised.

Program:

Essential Courses: 33a and 33b, two semesters of laboratory work in physics above Grade I, the honors paper, and a review unit.

Optional Courses: other physics courses above Grade II; advanced courses in other sciences, mathematics, or philosophy, chosen in consultation with the director.

Examinations: written examinations covering theoretical and experimental phases of the subject in classical physics, modern physics, and in the field of specialization.

PSYCHOLOGY

PROFESSORS:

WILLIAM SENTMAN TAYLOR, PH.D.

HAROLD EDWARD ISRAEL, PH.D.

ELSA MARGAREETA SIIPOLA, PH.D., *Chairman*

ASSOCIATE PROFESSOR:

DILMAN JOHN DOLAND, PH.D.

ASSISTANT PROFESSORS:

HARVEY BURDICK, PH.D.

BARBARA STEWART MUSGRAVE, PH.D.

JOHN CAMERON HAY, PH.D.

LECTURER:

JEAN CARL COHEN, PH.D.

Unless otherwise indicated, 11a or 12 is prerequisite for every further course.

A student considering a major in the Department is advised to take 11a and b.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group G by taking Psychology 11b and 31a or 31b.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

- 11a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Not open to students taking 12. Two lectures and one two-hour demonstration. M T 9, 10, W 9-11; M T 11, 12, W 11-1; F S 9, 10, Th 9-11; F S 11, 12, Th 11-1; T W 2, 3, Th 2-4. Miss Siipola (*Director*), Mr Israel, Mr Burdick, Mr Hay, Mrs Musgrave.
- 11b *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and demonstration, two hours, and one two-hour laboratory period. Open to students who have passed 11a or 12; by permission of the instructor to students taking 12. M T 9, 10, W 9-11; M T 11, 12, W 11-1; M T 2, 3, W 2-4. Mr Israel (*Director*), Mr Hay.
- 12 *General Psychology.* Outline of the field and methods of psychology; basic facts and theories, including such topics as motivation, learning, perception, thinking, and personality. Not open to students taking 11a. M T W 9. Mr Taylor.
- 22a *Educational Psychology.* A study of psychology and human development as they relate to educational goals, the educative process, and personality and adjustment. No prerequisite. M T W 12. Mrs Musgrave.
- 22b A repetition of 22a. M T W 12. Mrs Musgrave.
- 23a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. M T W 9. Mrs Cohen.

PSYCHOLOGY

- 23b A repetition of 23a. Open to freshmen who have passed 11a. Th F S 10. Mrs Cohen.
- 24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen who have passed 11a. M T W 9. Mrs Cohen.
- 25b *Introduction to Social Psychology.* The study of group behavior from the point of view of the individual, dealing with his interactions and role-relationships with other group members. The social theories of Mead, Freud, and Fromm will be considered. Topics include: mass behavior, socialization, group conflict, and prejudice. Open to freshmen who have passed 11a. Th F S 11. Mr Burdick.
- 31a *Methods in Psychology.* When enrolling, the student must enter on her 31a class card her choice of two independent sections: (a) A study of the scientific method and its application to psychological problems with particular reference to experimental design and statistical analysis. Open to sophomores. Prerequisite, 11b. M T W 12. Mr Burdick. (b) Same as 31b, section (a). M T 4-6. Mr Hay.
- 31b *Experimental Psychology.* Application of the experimental method to one of the specialized areas of psychology. When enrolling, the student must enter on her 31b class card her choice of three independent sections: (a) sensation and perception, Th F 11-1, Mr Hay; (b) social perception, T W 11-1, Mr Burdick; (c) human learning, Th F 2-4, Mrs Musgrave. Four class hours including one two-hour laboratory period. Open to sophomores. Prerequisite, 11b.
- 35a *Social Psychology of Attitudes and Opinions.* An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. Open to qualified sophomores by permission of the instructor. M T W 10. Mr Burdick.
- 36a *Dynamic and Abnormal Psychology.* General psychology of conscious and sub-conscious motivation, everyday problems and mechanisms of adjustment, psychoneuroses, psychoses, and mental hygiene. Two optional visits to near-by hospitals. Open to qualified sophomores by permission of the instructor. M T W 3. Mr Taylor.
- 36b *Dynamic and Abnormal Psychology.* A continuation of 36a, which is prerequisite. M T W 3. Mr Taylor.

PSYCHOLOGY

- 37b *Psychology of Personality*. Study of the psychological organization of the adult personality, with emphasis upon individuality rather than generalized human nature. Basic concepts and theories: experimental and clinical techniques of investigation; development of adult personality-structure. Open to qualified sophomores by permission of the instructor. M T W 11. Miss Siipola.
- 38a *Introduction to Clinical Psychology*. A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. Th 2-4, F 2. Mr Doland.
- 38b *Mental Tests in Clinical Practice*. Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of 15 hours of practice outside the laboratory. Th 2-4, F 2. Mr Doland.
- 39b *Industrial Psychology*. Psychology of employers, employees, and consumers in regard to production, distribution, and consumption. An optional visit to a near-by factory. Open to qualified sophomores. Prerequisites 11a or 12 and permission of the instructor. M T W 12. Mr Taylor.
- 40a *Theories and Schools of Psychology*. Study of the principal theoretical systems with emphasis on modern schools of behaviorism, gestalt, and psychoanalysis. Th 7:30-9:30. Mr Israel.
- 40b Synoptic Course. Th 7:30-9:30. Miss Siipola with members of the Department.
- 41a, 41b Special Studies. Problems not specifically dealt with by other courses in psychology, such as research problems in experimental psychology, advanced theory, psychology of language, special problems in child psychology, and mental tests. By permission of the Department for senior majors who have had twelve semester hours above Grade I in psychology. *Two or three hours*.
- 42b *Advanced Theoretical Psychology*. Critical study of current theories and examination of theoretical issues involved in selected problems. Prerequisite, 40a and permission of the instructor. Mr Israel.
- 43b *Comparative Psychology* (seminar). Evolution of animal behavior, with emphasis on discrimination, motivation, and modifiability. Reports on special problems such as infrahuman social behavior, the experimental neurosis, inheritance of behavior traits. Mr Hay.
- [44a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite, 23a or b. Mrs Cohen.]

PSYCHOLOGY

- 45b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Open to qualified juniors by permission of the instructor. Prerequisite, 25b or 35a or permission of the instructor. Offered in alternate years. T 7:30-9:30. Mr Burdick.
- 47a *Psychology of Personality* (seminar). Intensive study of projective techniques of investigating personality. Supervised practice with standard techniques. Prerequisite, 37b. Th 11-1. Miss Siipola.
- 48b *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: theories of personality development; emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite, at least one of the following: 23a or b, 37b, or 38a. W 7:30-9:30. Mr Doland.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced Studies. Similar to 41a and b. *One hour or more.*
- 52a, 52b *Seminar in Current Psychological Problems*. Also for senior honors students by permission. *One hour or more.*
- 56 *Abnormal Psychology*. Students will be required to attend the lectures in 36a and b. Mr Taylor.
- Speech 58a *Experimental Phonetics*.
- Adviser of graduate study: Mr Doland.

THE MAJOR

Advisers: Members of the Department.

Based on six semester hours in psychology including 11a or 12.

Essential Courses: twenty-one semester hours in psychology including 11b, 40a, and 40b.

Optional Courses: other courses in psychology and appropriate courses in other departments.

HONORS

Director: Mr Israel.

Prerequisite: 11b. Courses in zoology, physics, and sociology are useful as background.

Program: 40a and 31a (section a), twelve hours in other psychology courses, and six devoted to a long paper and review; nine additional hours in psychology or related subjects.

Examinations: one on general experimental and theoretical psychology; one on other fields of psychology; one a more specialized type.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	VIRGINIA CORWIN, B.D., PH.D.
ASSOCIATE PROFESSOR:	ROBERT CRAIG, S.T.M., PH.D.
ASSISTANT PROFESSORS:	†RICHARD PRESTON UNSWORTH, A.B., B.D. ROBERT A. GESSERT, B.S.E.E., B.D. WILLIAM FRANCIS MAY, A.B., B.D., <i>Chairman</i> †BRUCE THEODORE DAHLBERG, A.B., B.D. FRANK BROWN DILLEY, B.D., M.A.
VISITING LECTURERS:	EUGEN KULLMANN, PH.D. DEANE WILLIAM FERM, B.D., PH.D. DAVID SHEPHERD KING, B.D., S.T.M.

The courses in religion which may be taken to fulfill the distribution requirement are, in Group A, 11; in Group C, 14, 28b, 31a and b, 33a, 34, 35a, b, 37a.

- 11 *Introduction to the Bible.* The literature of the Bible as expressing the religion of the Hebrew prophets, lawgivers, historians, and poets, and the early Christians. M T W 9, Th F S 9 (for upperclassmen); Th F S 10 (for freshmen). Miss Corwin, Mr Dilley.
- 14 *Introduction to the Study of Religion.* Teachings of contemporary Judaism, Roman Catholicism, and Protestantism. Religious interpretations of modern man's life and culture. For freshmen and sophomores only. Lec. Th 10. Dis. (for freshmen) M T 12, 2; Th F 2; F S 10; (for sophomores) M T 12; Th F 2; Th F 3. Members of the Department.
- 23 *Religion and Social Responsibility.* Study of the effect of religious thought and practice on social, economic, and political life in the modern world. Religious principles as a basis for social policy and action in the fields of race and inter-group relations, business and industry, government, international affairs. M T W 3. Mr Gessert.
- [25a *Greek New Testament.* Prerequisite, Greek 11, or the equivalent. Hours to be arranged. Mr Unsworth.]
- [27b *Life and Teaching of Paul.* Prerequisite, 11, or by permission. Offered in alternate years. M T W 12. Mr Craig.]
- 28b *Judaism.* Its history and literature from the beginnings to modern times. Biblical origins, Dead Sea Covenanters, other sectarian movements, the great rabbis, philosophers, and mystics. Sociological and theological currents in the modern period. T 3-5:30. Mr Kullmann.
- [29 *Hebrew.* Elementary course with readings from narratives of the Old Testament. Mr Dahlberg.]

RELIGION & BIBLICAL LITERATURE

- 31a *History of Christian Thought through the Middle Ages.* The early church fathers, Augustine, and medieval scholasticism. Th F S 9. Mr May.
- 31b *History of Christian Thought since the Middle Ages.* The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. Th F S 9. Mr May.
- 32b *Religion in America.* Religious thought and institutions and their influence on American culture. M T W 2. Mr Gessert.
- 33a *Christian Ethics.* Major historical systems. Influences of religious and secular currents on the ethics of contemporary theologians. Problems of developing an ethic in modern thought. M T W 2. Mr Gessert.
- 34 *Contemporary Religious Thought.* The nature and validity of religion in the light of contemporary anthropological evidence and anti-religious thought. The positions of representative modern thinkers including Berdyaev, the Neo-Thomists, Heschel, Barth, Tillich, Baillie. M T W 11. Mr Craig.
- 35a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world and man in the periods of greatest influence in India, China, and Japan. Temples, observances, and methods of inner personal development. Modern thinkers and movements. Th F S 11. Miss Corwin.
- [35b *Islam.* The formative period: Muhammed, the Quran, the law. The mediaeval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world. To alternate with Religion 39b. Th F S 11. Miss Corwin.]
- [36a *Problems of the Individual in the Bible.* His rewards and sufferings, his search for mediation between God and man, based on such books as Jeremiah, Job, the Fourth Gospel, Ephesians. Th 2-4, F 2.]
- 37a *Philosophy of Religion.* A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dilley.
- 39a *Old Testament Theology.* Creation, sin, redemption and other basic themes. Hebrew concepts of God, the word, soul, history, death compared with Greek and ancient Near Eastern counterparts. T 3-5:30. Mr Kullmann.
- 39b *Jesus in the Gospels.* A study of his teaching and mission based on the first three gospels. Open to students who have taken Religion 11. To alternate with Religion 35b. Th F S 11. Miss Corwin.

RELIGION & BIBLICAL LITERATURE

- 40b *Religion, Its Nature and Functions*. Readings and discussions. T 4-6.
- 41, 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in religion. *Two or three hours*.
- 42a *Existentialism and Theology* (seminar). Studies in Kierkegaard, Nietzsche, and others. German and French existentialism and their influence on religious thought. By permission of the instructor. Th 4. Mr May.
- 43b *Systematic Theology* (seminar). A detailed and critical examination of the teaching of a major figure in the field of Systematic Theology; a comparison and a contrast with the teaching of one other such theologian. In 1960-1961, William Temple and Paul Tillich. Mr Craig.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51a, 51b Advanced Studies. *One hour or more*.
- Adviser of graduate study: Mr May.

THE MAJOR

Advisers: Miss Corwin, Mr Craig, Mr Dilley.

Based on 11 or 14.

Essential Courses: twenty-one semester hours in religion, including 40b, six hours in Biblical studies (three for those who have taken 11 before the junior year), and six hours in religious thought.

Optional Courses: other courses in religion and in related departments.

HONORS

Directors: Mr Dahlberg (1961), Mr Gessert (1962).

Prerequisite: 11 or 14.

Program: six semester hours in courses or units in Biblical studies (three for those who have taken 11 before the junior year) and six in religious thought; in senior year one unit for the preparation of the paper and one for review. The greater portion of the work will be in units and courses in the Department, with work in related fields approved by the director.

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

Examinations: one in a selected field of concentration; one in the general field of the major; one oral, relating the subject of the honors paper to the field of the major.

RUSSIAN LANGUAGE & LITERATURE

Units

- Studies in the Old Testament.* First semester. Mr Kullmann.
Studies in the New Testament. Second semester. Miss Corwin.
History of Christian Thought. Second semester. Mr May.
Judaism. Second semester. Mr Kullmann.
Religion, Ethics, and Society. First semester. Mr Gessert.
History of Religions. First semester. Miss Corwin.
Philosophy of Religion. First semester. Mr Dilley.

RUSSIAN LANGUAGE & LITERATURE

PROFESSOR:	HELEN MUCHNIC, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	CATHERINE A. PASTUHOVA, PH.D. *GEORGE GIBIAN, PH.D.
ASSISTANT PROFESSOR:	IGOR ZELLJADT, M.A.
LECTURER:	VALERIAN F. KOLESOFF, B.S.
INSTRUCTOR:	NATHALIE KUPRIANOFF

The courses in Russian which may be taken to fulfill the distribution requirement in Group A are 23, 26a and b, 35a and b, 36a.

- 11 *Elementary Course.* M T W 9, 10, 11. Members of the Department.
- 21a *Intermediate Course.* Selections from Russian Prose and Poetry. Prerequisite, 11 or the equivalent. M T W 9, 10; W Th F 2. Members of the Department. (L)
- 21b *Intermediate Course.* Selections from Russian Prose and Poetry. Prerequisite, 21a or 22a. M T W 9, 10. Members of the Department. (L)
- 22a *Scientific Russian.* Reading and translation of scientific materials. Review of grammar. Mathematical and physical terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 22b *Scientific Russian.* Reading and translation of scientific materials. Chemical, biological, economic and geographic terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 23 *Literature of the Nineteenth Century.* Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy, with discussion of important trends in social and aesthetic ideas which they represent. Conducted in Russian. Prerequisite, 21a and b, or the equivalent. Mr Zelljadt. (L)

RUSSIAN LANGUAGE & LITERATURE

- 31 *Advanced Course.* Reading from classical and Soviet literature, with emphasis on roots and structure of the language. Prerequisite, six hours of Grade II courses in the Russian language. Mrs Pastuhova. (L)
- 43b *Seminar in the History of Slavic Languages.* A survey of the origin and development of the Slavic Languages, their sounds, vocabulary, and grammatical forms from the beginning to the present. Lectures and analysis of selected, illustrative texts. Prerequisite, 21a and b or the equivalent or permission of the instructor. Mr Zelljadt.

LITERATURE IN TRANSLATION

- 26a *History of Russian Literature.* From the beginnings to Pushkin. M T W 10. Miss Muchnic.
- [26b *History of Russian Literature.* From Pushkin to Turgenev. Prerequisite 26a. M T W 11. Miss Muchnic.]
- 35a *Tolstoy.* M T W 11. Miss Muchnic.
- 35b *Dostoevsky.* M T W 11. Miss Muchnic.
- [36a *Russian Drama.* Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. By permission of the instructor. M T W 9. Mr Gibian.]
- 40b Review Unit.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Russian. *Two or three hours.* Mrs Pastuhova.
- 42b *Seminar in Soviet-Russian Literature.* Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. T 4-6. Mr Gibian.
- 50, 50a, 50b. Research and Thesis. *Three or six hours.*
- 51, 51a, 51b. Advanced Studies. Arranged individually.
- Adviser of Graduate Study: Miss Muchnic.

THE MAJORS

Advisers: Members of the Department.

A. Russian Major

Based on 21a, 21b.

Essential Courses: 23, 26a, 26b, 35a, 35b, 40b, History 217a, 217b.

SOCIOLOGY & ANTHROPOLOGY

Optional Courses: 31, 36a, 42b, 43b, Economics 319a, Government 36b, Humanities, History and Social Science 493, other courses in related fields.

B. Major in Russian Civilization

Based on 11 and History 11.

Essential Courses: 21a, 21b, 26a, 26b, 35a, 35b, 40b, Economics 319a or Government 36b, History 217a, 217b.

Optional Courses: 36a, 42b, further work in Russian language, Humanities, History and Social Science 493, courses in related fields.

HONORS

Director: Miss Muchnic.

Prerequisites: 21a, 21b, 26a, 26b.

Program: 23, 35a, 35b, 36a, 42b, History 217a, 217b; at least twelve hours in units and seminars in the department or in other departments within the field of correlation; a long paper in first semester of senior year to count for three hours.

Examinations: (1) on the whole field of Russian literature; (2) on Russian history; (3) on the field of correlation; (4) on language with translation from Russian into English, and from English into Russian, and a brief composition in Russian.

For students who choose honors in Russian Civilization an appropriate course in government or economics will be substituted for Russian 23 and the examination in language will be omitted.

SOCIOLOGY & ANTHROPOLOGY

PROFESSOR: NEAL BREAULE DENOOD, PH.D.

ASSOCIATE PROFESSOR: ELY CHINOV, PH.D., *Chairman*

ASSISTANT PROFESSORS: †ALLEN HOWARD KASSOF, PH.D.

HOWARD M. BROTZ, PH.D.

PETER ISAAC ROSE, PH.D.

LECTURERS: HOWARD J. PARAD, M.S. IN S.S., Director of the Smith College School for Social Work

RICHARD SLOBODIN, PH.D.

INSTRUCTOR: HENRY DEAN CARSCHE, A.M.

Among the courses which may be taken to fulfill the distribution requirement in Group E are 11a and b, 11a and 23b, and Social Science 192.

Students planning to major or to do honors work in the department are advised to take introductory courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

SOCIOLOGY & ANTHROPOLOGY

Students who plan to enter the field of social work should consult Mr Parad regarding desirable courses.

Grade III courses, except 312a, are open to sophomores with prerequisite and permission of the instructor.

The prerequisite for all Grade II and III courses, unless otherwise specified, is 11a, 26, or Social Science 192.

- 11a *Introduction to Sociology and Anthropology.* Society, culture, and human behavior. Major institutions and forms of social organization: family, classes and ethnic groups, bureaucracy, property, power, religion, community. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Chinoy (*Director*) and members of the department.
- 11b *Industrial Society.* Comparative analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. Problems of integration, conflict, and change. Prerequisite, 11a. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Chinoy (*Director*) and members of the department.
- 21a *Urban Sociology.* Comparative study of cities; social relations in the city; problems of urban and suburban growth and development; the urbanization of American society. M T W 2. Mr Rose.
- 23b *Social Anthropology.* Comparative study of the social, religious, and political structure of selected pre-literate societies. Open to freshmen with prerequisite. M T W 12. Mr Slobodin.
- 32a *Social Disorganization.* Theory of social disorganization; delinquency, crime, and related problems. Open also to students who have passed Psychology 11a or Psychology 12. Th F S 9. Mr DeNood.
- 32b *Social Disorganization.* Family disorganization; mental deficiency and pathology; and related problems. Optional field trip. Open also to students who have passed Psychology 11a or Psychology 12. Th F S 9. Mr DeNood.
- 34a *Culture Contact and Change.* Anthropological analysis of contact between Western and non-Western cultures and current social changes. Cases selected from Latin America, Africa, and the Middle East. M T W 11. Mr Slobodin.
- 34b *Culture Contact and Change.* Similar to 34a. Cases selected from Asia and the Pacific. M T W 11. Mr Slobodin.

SOCIOLOGY & ANTHROPOLOGY

- 35b *The Modern Family.* Analysis of courtship, marriage, and family life with relation to changing and persistent values and attitudes; emphasis on women's roles. Open also to students who have passed Psychology 11a or Psychology 12. M T W 9. Mr Rose.
- 37b *Racial and Ethnic Relations.* The application of sociological and anthropological findings to the study of "minority group" relations in the modern world, with particular emphasis on the United States. M T W 2. Mr Rose.
- 38b *The Sociology of Social Planning.* Study and analysis of social planning in health, education, recreation, welfare, housing, and community reorganization. Emphasis on twentieth-century developments in the United States. Th F S 11. Mr DeNood.
- 39a *Social Work in the American Community.* Development and theory of modern social services; the basic processes: casework, group work, and community organization. Prerequisite, the introductory course in economics, government, psychology, sociology, or Social Science 192. M T W 10. Mr Parad.
- [310a *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive religion and Christianity. M T W 9.]
- 311a *Class Structure in American Society.* Analysis of the American class system, with particular emphasis upon the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 3. Mr Chinoy.
- 312a *Selected Sociological Theories.* Critical analysis and application of theories of Durkheim, Sumner, Simmel, Cooley, Weber, Thomas, and Znaniecki. Prerequisite, 11a and b, 26, or permission of the instructor. Th F S 11. Mr Brotz.
- [313b *The Sociology of Occupations.* Analysis of occupational roles and the social organization of work. Professionalization; bureaucracy and white collar employment; automation and manual labor. Consideration of the problems of gainfully employed women. M T W 3.]

SOCIOLOGY & ANTHROPOLOGY

- 324b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. M 12 T 4-6. Mr Mair.
- 40b *Problems of Scope and Method.* Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. Mr Chinoy (*Director*).
- 41, 41a, 41b *Special Studies.* By permission of the Department for senior majors in the department. *Two or three hours.*
- 43b *Seminar in Social Research.* The logic and methods of social research and research techniques; their application to a specific project of current interest. By permission of the instructor. Mr Carsch.
- 44b *Seminar in Social Institutions.* Structure, functions, dynamics, and integration of contemporary institutions. By permission of the instructor. Mr DeNood.
- 45a *Seminar in Social and Cultural Change.* Theories of social change. Analysis of selected social and cultural trends in the mass society. By permission of the instructor, Alternates with 46a. Mr Brotz.
- [46a *Seminar in Sociological Analysis of Popular Culture.* Emergence of popular or "mass" culture and its implications for individual and society; analysis of trends in recreation, entertainment, and mass media of communication. By permission of the instructor.]
- 47a *Seminar in Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency, family disorganization, and the social aspects of mental health. By permission of the instructor. Mr DeNood.
- HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* Modern Capitalism. Mr Brotz, Miss Hadley, Mr Mallan.
- 51, 51a, 51b *Special Advanced Studies* in such subjects as advanced theory, social organization and disorganization, culture contacts, problems of scientific methodology. *One hour or more.*
- Adviser of graduate study: Mr Chinoy.

SOCIOLOGY & ANTHROPOLOGY

THE MAJOR

Advisers: Mr DeNood, Mr Chinoy, Mr Brotz, Mr Rose.

Based on one of the following: 11a and b; 11a and 23b; Social Science 192 and 23b.

Essential Courses: twenty-one semester hours in the department including 312a and 40b.

Optional Courses: other courses in the department; appropriate courses in allied departments.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Year Abroad.

HONORS

Director: Mr Chinoy.

Prerequisite: Candidates are urged to take introductory courses in two or more of the following fields: economics, government, history, philosophy, psychology.

Program: units, seminars, and courses, including six hours in theory, preferably in junior year; three or six hours for a long paper in first semester of senior year; three hours for directed reading and review in the second semester; and fifteen additional hours in the department and related fields.

Examinations: three, in selected fields of concentration and sociological theory.

Units

The units will count normally for three hours each.

Basic Sociological Theory. First semester. Mr Brotz.

Current Problems in Social Theory. Second semester. Mr Chinoy.

Problems in Social Anthropology. Second semester. Mr Slobodin.

Social Stratification. First semester. Mr Chinoy.

[*Selected Studies in Soviet Society.* Second semester. Mr Kassof.]

Culture and Personality. First semester. Mr Carsch.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

PROFESSORS:	RUTH LEE KENNEDY, PH.D., <i>Chairman</i> KATHERINE REDING WHITMORE, D.LIT. (MADRID)
ASSOCIATE PROFESSORS:	HELEN JEANNETTE PEIRCE, M.A. †JOAQUINA NAVARRO, PH.D.
ASSISTANT PROFESSOR:	A. DOLORES BROWN, PH.D.
INSTRUCTORS:	‡SANFORD SHEPARD, PH.D. ERNA RUTH BERNDT, PH.D. NATALIA MARRUJO RUIZ, B.A.
FACULTY FELLOW:	LYNDA HALL GILLESPIE, A.B.

The course in Spanish which may be taken to fulfill the distribution requirement in Group A is 25.

The following preparation is recommended for students who intend to take the Spanish or Latin-American major: courses in classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- 21 *Elementary Portuguese.* Prerequisite, two years of Spanish or permission of the instructor. Miss Peirce.
- 22a, 22b *Reading of Modern Portuguese Prose.* Prerequisite, 21. One hour. Miss Peirce.

SPANISH

A. Language

- 11 *Elementary Course.* M T W 3, Th F S 10. Members of the Department.
- 11D *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 9, and one hour to be arranged. Members of the Department. M T W Th F 2. (L)
- 12 *Intermediate Course.* Grammar review and reading of modern prose. Prerequisite, two units in Spanish or 11. M T W 10; Th F S 9. Members of the Department. (L)
- 13 *Grammar, Composition, and Reading.* Discussion of modern Spanish novels, plays, and poetry. Prerequisite, three units in Spanish. M T W 9; T Th S 11. Members of the Department. (L)

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 21a *Prose Composition*. Prerequisite, 11b, 12, 13, or 16. Th F 2 and one hour to be arranged.
- 31b *Advanced Prose Composition*. Prerequisite, 21a. Th F 2. One hour to be arranged.
- 32a or 32b *Teachers' Course*. Review of Spanish grammar. Discussion of methods. Practice teaching. Prerequisite, 21a or 25.
- [33b *Advanced Translation into English*. The material to be translated will be taken from current publications, letters, technical articles.]

B. Conversation

- 14a, 14b *Conversation*. Two class hours. One hour. M T 3.
- 24b *Theoretical and Practical Phonetics*. Exercises in hearing and pronunciation. Open to students who plan to spend their junior year in Madrid and to others by permission. Two class hours. One hour. M T 12.

C. Literature

The prerequisite for courses of Grade III in this division is 25.

- 16 *A Study of Some Aspects of Spanish Life and Culture*. Reading in Spanish, discussion in English. Prerequisite, three units in Spanish or 12 or 11b. Th F S 11. Members of the Department. (L)
- 25 *Reading of Modern Novels, Plays, and Poetry*. Prerequisite, four units in Spanish, 11b, 12, 13, or 16. M T W 11; Th F S 12. Members of the Department. (L)
- 34a *Masterpieces of Spanish Literature to the Beginning of the Sixteenth Century*. Th F S 10. Miss Brown.
- 35b *Literature of the Spanish Renaissance*. Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz. Th 4-6, F 4. Miss Berndt.
- 36a *Cervantes: Don Quijote*. Th 4-6, F 4. Miss Kennedy.
- 36b *Drama of the Seventeenth Century*. Lope de Vega, Tirso de Molina, Calderón. Miss Kennedy.
- [37a *Nineteenth Century: The Romantic Period*. M T W 11.]

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 37b *Nineteenth Century: The Modern Novel.* M T W 12. Mrs Whitmore.
- 38a *Contemporary Spanish Literature.* M T W 12. Mrs Whitmore.
- 310a, 310b *South American Literature.* A study of representative works and authors from the colonial period to the present. Recommended background, History 13 or 325a. Miss Peirce.
- 40b Correlation of work in the major field.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Spanish. *Two or three hours.*

D. Graduate Courses

Students who wish to do graduate work in the Department are required to have a knowledge of Latin.

- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies in Spanish literature, arranged in consultation with the adviser of graduate study, on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.
- 52 *History of the Spanish Language.* Miss Brown.
- 53a or 53b *Spanish Bibliography and Literary Methods.* Miss Kennedy.
- [54a *Spanish Poetry since 1898.* A detailed examination of the main currents of Spanish contemporary poetry from Unamuno to Lorca emphasizing stylistic analysis.]
- [56b *Techniques of the Contemporary Spanish Novel.* Main trends of the Spanish contemporary novel. Stylistic devices, problems in characterization and literary acculturation. Close analysis of several novels.]

Adviser of graduate study: Miss Kennedy.

SPEECH

THE MAJORS

A. *The Spanish Major*

Adviser: Mrs Whitmore.

Based on 11b, 12, 13, or 16.

Essential Courses: from Division A, 21a and 31b, except for students who have been Juniors in Spain; from Division C, 40b and nine semester hours above Grade II normally so distributed as to include work in each of the three major periods.

Optional Courses: other Spanish courses above Grade I or courses in related departments.

B. *The Latin-American Major*

Adviser: Miss Peirce.

Based on 11b, 12, 13, or 16.

Essential Courses: 310a, 310b, 40b; History 325a.

Optional Courses: 31b, any Grade III course from Division C; Portuguese 21, 22a and b; History 420b; Geology 32a; Sociology and Anthropology 34a; any course of Grade III or IV treating some phase of Latin-American Civilization.

HONORS

Director: Miss Peirce.

Prerequisites: 11b or the equivalent; 25 and, if possible, 21a and 31b.

Program:

Minimum requirement: one unit in language before second semester of senior year; a paper and review in senior year.

Optional courses or units to be selected in consultation with the director.

Examinations: (a) on the whole field; (b) on a special field; (c) on a great writer *not* of the special field.

SPEECH

ASSISTANT PROFESSOR:	CHARLOTTE H. FITCH, A.M., <i>Chairman</i>
VISITING LECTURER:	CLARENCE V. HUDGINS, PH.D.
INSTRUCTORS:	VINCENT C. BRANN, A.M.
	*BEVERLY WILSON MAY, M.F.A.

- 11a *Introduction to Speech.* Theoretical and practical foundation in the common speech elements of public speaking, discussion, and interpretation. Individual conferences and recordings. M T W 10. Mr Brann.

SPEECH

- 11b Repetition of 11a. M T W 9.
- 12a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 11. Miss Fitch.
- 12b Repetition of 12a. M T W 10.
- 21a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. Open to freshmen by permission of the instructor. Two class hours. *One hour.* M T 2. Miss Fitch.
- 21b Repetition of 21a. Th F 12.
- 22b *Voice Training.* Continuation of 21a. M T 2.
- [23b *Public Speaking.* Principles, history, and criticism of public address and practice in expository and persuasive speaking. M T W 12.]
- 26a *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background, Speech 12a or b. M T W 12. Mr Brann.
- [26b Repetition of 26a. Open to freshmen who have had 12a. M T W 11. Mrs May.]
- [28 *Phonetics for Foreign Students.* Formation of English speech sounds, their distribution in connected speech, stress, intonation, and rhythm. Two class hours. *One hour each semester.* Th F 12. Miss Fitch.]
- [31 *Radio.* History, principles, and techniques of radio production. Practical experience in selected types of radio programs. Four class hours. M Th 4-6.]
- [33a *Discussion.* Principles and methods of discussion and their application in the consideration of contemporary problems. M T W 12. Mr Brann.]
- 35b *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background, three semester hours in Speech, preferably 26a or b. M T W 12. Miss Fitch.

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- 38b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in story-telling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. M T 12 and a practice hour to be arranged. Mrs May.
- 41a, 41b Special Studies. By permission of the department.
- 48a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 12 and an hour for practice and observation to be arranged. Miss Fitch.
- 58a *Experimental Phonetics.* The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites, a fundamental course in speech and Physics 11 or Psychology 11a, or permission of the instructor. Mr Hudgins.

THEATRE

PROFESSORS:	**SAMUEL ATKINS ELIOT, A.B. WILLIAM DENIS JOHNSTON, M.A., LL.M., <i>Chairman, second semester, 1960-1961</i>
ASSOCIATE PROFESSORS:	EDITH BURNETT, B.S. DENTON M. SNYDER, M.A., <i>Chairman, first semester, 1960-1961</i>
INSTRUCTORS:	JACKSON G. BARRY, A.M. VINCENT C. BRANN, A.M.
TEACHING FELLOWS:	MARTHA GENE DARBY, A.B. ELLEN PETERSILIE, A.B. KATHERINE JEAN WRIGHT, A.B.
GRADUATE ASSISTANTS:	¹ APOLLO NICHOLAS DUKAKIS, B.A. JOHN CHARLES GAINES, B.F.A.

The courses in Theatre which may be taken to fulfill the distribution requirement are, in Group A, 23a and b and, in Group B, 11.

A. HISTORICAL AND THEORETICAL COURSES

- 11 *Introduction to Theatre.* Analysis of the basic elements of drama in performance and survey of theatrical forms from ancient times to the present day. Lectures, discussions, demonstrations. Lec. M T W 11. Mr Brann.

THEATRE

- 23a, 23b *Forms of the Drama*. A study of the principal forms, European and Asiatic, with special attention to the different kinds of theatre and to the greatest plays and playwrights from Aeschylus to Hebbel. 23a is not a prerequisite for 23b. M T W 3. Mr Eliot, first semester; Mr Johnston, second semester.
- 31b *American Theatre and Drama*. Origin and early growth; evolution of an American style in theatrical art; development of American drama, especially since 1914. Emphasis on plays from Eugene O'Neill to Tennessee Williams. M T W 12. Mr Brann.
- 35a, 35b *Modern European Drama*. Drama (in translation) in Russia, Norway (Ibsen, Bjornson), Sweden (Strindberg), France after 1848, Germany after 1888, Austria, Hungary, Italy, and Spain. 35a is not a prerequisite for 35b. M 4-6. Mr Eliot, first semester; Mr Johnston, second semester.
- [36a *Drama in Asia*. India, the Indo-Chinese and Malay countries, Tibet, China, and Japan. T 4-6. Mr Eliot.]
- 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.
- 45a *Theatre Criticism*. A course designed to provide a basis for criticism of theatre; theories of criticism applied to the play and production. Recommended background, 11. Mr Barry.
- 46a *Shaw and some of his Contemporaries*. Important plays, British, Irish, and American, of the last hundred years. Th 4-6. Mr Eliot.

B. Theatre Practice

Not more than six hours in 12a, 12b, 24a, 24b may be counted toward the 120 hours required for the degree.

- 12a, 12b *Dance and Mime*. Technique and elementary composition. Prerequisite for 12b, 12a. T 9; four supervised practice hours, Th F 11-1. Miss Burnett.
- 22 *Technique—Dance and Mime*. One hour each semester. Th 4-6. Miss Burnett.
- 24a *Mounting the Play*. A study of general architectural features of theatres that bear upon the problems of mounting plays and the fundamental techniques

THEATRE

and methods of production. Two hours of lectures and one laboratory hour of practice in basic movement for stage action. M 9-11, W 9. Mr Snyder, Miss Burnett.

- 24b *Acting*. Exercises in concentration, imagination, and observation, preparatory to a study of the actor's approach to a role. Lecture-recitation and one laboratory hour of practice in basic movement for stage action. M 9-11, W 9. Mr Barry, Miss Burnett.
- 32a *History of Dance*. A survey with practice in selected period forms. Prerequisite, 12a, b. Lec. M 11-1; studio hours, T W 11-1. Miss Burnett.
- 32b *Choreography*. Advanced course designed to emphasize individual and group creative expression through the medium of modern dance. Technique, original composition, and production. Prerequisite, 32a. Six studio hours. M T W 11-1. Miss Burnett.
- 33 *Acting*. Advanced techniques for the interpretation of contemporary and classical dramatic literature. Scenes and exercises. Prerequisite, 24b, or by permission. Recommended background 12a, 12b. Lec.-rec. M 2-4, lab. W 2. Mr Barry.
- *34a, 34b *Scene Design*. A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite, 24a. Prerequisite for 34b, 34a, or permission of the instructor. T 2, Th 2-4. Mr Snyder.
- 37a, [37b] *Play Analysis and Creative Writing for the Dramatic Mediums: Theatre, Radio, and Television*. The student will either have practice in writing for one of these mediums or study the elements of play structure and dramatic composition. M 9, W 9. Mr Johnston.
- 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.
- [42a, 42b *Advanced Playwriting*. Prerequisite, 37a or b or the equivalent. One hour or more. Mr Eliot.]
- *44a, 44b *Directing*. The study and application of directorial techniques: casting, rehearsal, movement and grouping, stage business, and dramatic interpretation. Assignments and projects in 44a based on contemporary plays; in 44b based on classical plays. Prerequisite for 44b, 44a. T 2, Th 11-1. Mr Barry.

*Six hours of crew work per week will be required during each of the four-week preparation periods for the major productions.

THEATRE

C. Graduate Courses

- 50, 50a, 50b Research and Thesis. *Three or six hours.* Members of the Department.
- 51a, 51b Advanced Studies arranged in consultation with the Department. *One hour or more.*
- 52 *Rehearsal and Production.* Theory and practice on Department productions; advanced work in direction, acting, lighting, and stage design. *Three or six hours each semester.* Members of the Department.

Adviser of graduate study: Mr Snyder.

THE MAJOR

Adviser: Mr Snyder.

Based on 11.

Essential Courses: 44a and b, and twelve hours in Theatre, of which at least nine hours must be from Division A.

Optional Courses: Other courses in Theatre, or courses in other departments.

A winter field trip of two days for majors and graduate students.

HONORS

Director: Mr Snyder.

Prerequisites: Theatre 11.

Program: The requirement will consist of

- (1) a course of study arranged for the junior and senior years with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director.
- (2) An independent piece of work counting for six hours which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, direction, or stagecraft.

Examinations: two written and one oral along the following lines: historical, theoretical and literary, technical.

ZOOLOGY

PROFESSORS:	ERNEST CHARLES DRIVER, PH.D., <i>Chairman</i> LOIS EVELYN TE WINKEL, PH.D. †ESTHER CARPENTER, PH.D., D.SC. (HON.)
ASSOCIATE PROFESSORS:	ELIZABETH SANDERS HOBBS, D.SC. B. ELIZABETH HORNER, PH.D. GEORGE WARREN DE VILLAFRANCA, PH.D.
ASSISTANT PROFESSORS:	†MARY HODGE LAPRADE, PH.D. †MARY DAWSON, PH.D.
INSTRUCTORS:	AMELIA POLNIK, PH.D. ROSEMARIE THERESE SEGUIN, PH.D. ANNA MIRIAM MORGAN, A.M.
TEACHING FELLOWS:	CAROL EVANGELINE MARSCHHAUS, B.S. MARY ELIZABETH ROWE, A.B. ROSALIND MARIE VAN LANDINGHAM, A.B. LING-YEE MARY WANG
RESEARCH FELLOW:	RUTH SHER NIRENSTEIN, B.S.

Among the courses which may be taken to fulfill the distribution requirement in Division III are 11, 12, Biological Science 195.

Students planning to major in zoology are advised to take 11 in freshman year and general botany or chemistry before the junior year. See also preparation required for honors work.

- 11 *General Zoology*. Introduction to the study of animals, including the fundamental principles of biology and a comprehensive survey of the animal kingdom. Laboratory work consists of dissection, experiments, and practice in the use of the microscope. Two lectures and two two-hour laboratory periods. Lec. Th F 2. Lab. M T 9, 11; Th F 9, 11. Mrs Hobbs, Miss Horner, Miss Polnik, Miss Seguin.
- 11b The second semester of 11 for students who have passed 12, Biological Science 195, or Botany 11. Hours and instructors as in 11.
- 12 *The Anatomy and Physiology of Man and Other Mammals*. A study of the structure and functions of systems for support, motion, nutrition, reproduction, control, and integration. Two lectures and two two-hour laboratory periods. Lec. Th F 11. Lab. M T 9, 11, 2, 4; Th F 9, 2. Miss Te Winkel, Mr de Villafranca, Miss Polnik, Miss Morgan.
- 22 *Comparative Anatomy of Vertebrates*. Comparison and probable evolution of structures in a series of chordates from amphioxus to mammal. Prerequisite, 11, 12, or Biological Science 195; open to geology majors by permission of the instructor. Two lectures and two two-hour laboratory periods. Lec. M T 11; lab. Th F 9, 2. Miss Horner.

ZOOLOGY

- 23b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their interesting features as individual animals, their relationships to each other, their use in biological and medical research, and their effect on man. Prerequisite, 11, 11b, or by permission of the instructor. Two hours of lecture, four hours of laboratory. M T 2-5.
- 32a *Vertebrate Physiology*. A study of nutrition, digestion, circulation, metabolism, and excretion in man and other vertebrates. Prerequisites, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Mr de Villafranca.
- 32b *Cellular Physiology*. A study of contractility, irritability, conductivity, permeability, and respiration at the cellular level. Prerequisites, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Mr de Villafranca.
- 33a *Embryology*. A study of fertilization, cleavage, gastrulation, and the early development of organ systems in amphibians, birds, and mammals. Prerequisite, 22, or by permission of the instructor. Two lectures and four hours of laboratory. Lec. Th F 2; lab. Th F 3-5. Miss Te Winkel.
- [34a *Entomology*. Introductory study of insects, with field trips. Prerequisite, 11. Th F 11-1 and two hours of independent work.]
- 36b *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade I course in Zoology, Botany, or Biological Science 195. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Miss Polnik.
- 37a *Histology*. A study of animal tissues including their origin, differentiation, functions, changes with environment and with age, and their arrangement in organs. Prerequisite, 11, 12 or 22. Lec. or dem. Th F 9; lab. Th F 11-1.
- [37b *Microscopic Anatomy of the Endocrine System*. A study of the development, comparative histology, and changes with environment and with age of the glands of internal secretion. Prerequisite, 37a. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.]

- 38 *Animal Taxonomy and Ecology.* Field and laboratory work on animal identification and habits. Lectures on early American naturalists, methods of nature study, and wild-life conservation. Prerequisite, a course of Grade I in zoology or botany or Biological Science 195. Two lectures and four hours of laboratory or field work. Lec. M T 2; lab. M T 3-5. Mr Driver.
- 311a *Protozoology.* Free-living and parasitic protozoa and their relationships to other animals including man. Prerequisite, 11, 12, or Biological Science 195. Open to sophomores by permission of the instructor. Mrs Hobbs.
- 40b Review Unit. Members of the Department.
- 41, 41a, 41b Special Studies. Problems not dealt with in other courses in the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in zoology. *Two or three hours.*
- 42a *Enzymology.* The properties and functions of enzymes and vitamins with special reference to their role in intermediary metabolism. Prerequisites, 32a or b and Chemistry 21. Two lectures and four hours of laboratory. Lec. M T 12; lab. M 2-6. Mr de Villafranca.
- 43a *Development of Zoological Concepts.* Study of man's continuous effort to analyze and reduce to system the knowledge of living organisms and to interpret the phenomenon of life, with special attention to the development of the concept of species and theories of evolution. Open, by permission of the instructor, to students not majoring in zoology. Lec. M T W 11. Mr Driver.
- 44b *Experimental Embryology.* A study of theories of fertilization, development, differentiation, and regeneration and their experimental basis. Prerequisite, 33a. Two hours seminar, two hours of scheduled laboratory, and two hours of independent work. Lec. F 2-4; lab. Th 2-4. Miss Te Winkel.
- [45b *Vertebrate Paleozoology.* A study of fossils to show the development of vertebrate life in the past, including consideration of changes in morphological level of development, composition of faunae, and environmental conditions. Prerequisite, 22, or by permission of the instructor. Lec. M T 11; lab. and three field trips to be arranged. Miss Dawson.]

Research Courses

In these courses the work is individual and involves, in addition to the laboratory work upon which it is based, extensive reading and conferences with the instructor at stated intervals. A reading knowledge of French and German is desirable. *Two hours or more each semester.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

ZOOLOGY

51, 51a, 51b *Advanced Studies*. *One hour or more.*

52a, 52b *Embryology*. Prerequisite, 33a. Miss Te Winkel.

53, 53a, 53b *Anatomy* (prerequisite, 22) or *Ecology* (prerequisite, 38). Mr Driver, Miss Horner.

54 *Recent Advances in Zoology* (seminar). Reading and individual reports. *One hour each semester.*

[56, 56a, 56b *Entomology*. Prerequisite, 34a.]

57a *Invertebrate Physiology*. Prerequisite, 23b, or by permission of the instructor.

57b *Muscle Physiology*. A seminar in the physiology, cytology, and biochemistry of muscle. Prerequisite, 32b and Chemistry 21. Mr de Villafranca.

[58a 58b *Histology and Cytology* (prerequisite, 37a); 58 *Tissue Culture* (prerequisites, 37a and b).]

[59 *Genetics*. Prerequisite, 36b. Miss Polnik.]

510, 510a, 510b *Protozoology*. Prerequisite, 311a. Mrs Hobbs.

Adviser of graduate study: Miss Te Winkel.

THE MAJOR

Advisers: Mr Driver, Miss Te Winkel, Mrs Hobbs, Miss Horner, Mr de Villafranca. Based on six hours of Zoology or Biological Science 195. If based on a course other than 11, 11b or 23b must be taken later.

Essential Courses: 22, 40b, and fifteen semester hours in Zoology above Grade II.

Optional Courses: other courses in Zoology; related courses by permission of the adviser.

HONORS

Director: Miss Horner.

Prerequisites: 11, 11b, or 23b and 22; Chemistry 11 or its equivalent. Normally these courses should be taken before junior year.

Program: to be arranged with the director and to include fifteen hours in Zoology above Grade II plus three hours throughout the senior year on an individual problem, paper, and review.

Examinations: two will cover the general field, the third may be of a specialized character.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser to the major: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense.

Based on History 11 (or another college course in European History approved by the adviser) and History and Social Science 293 or English 212.

Essential Courses:

Six hours chosen from History 319a, 319b, 320b, 321a, 321b, 322a, 322b, 323a, 327b, 414b, 415a, 415b, or, with the permission of the adviser, other relevant courses in history.

Twelve hours from English 321a, 321b, 47b, Art 313a, 313b, Government 31b, 327b, Religion 32b, Education 36b, Philosophy 310a, Theatre 31b, or, with the approval of the adviser, relevant courses in government, economics, sociology, art or English.

Six hours:

American Studies 31a. Contributions of particular fields to the study of American civilization as a whole. For juniors majoring in American Studies. Mr Elkins, *director*.

American Studies 40b. *Integrating Course*. Mr Mann.

Eighteen hours must be taken in one department. Prerequisites for the major may not be counted in this total, but courses not listed among the "Essential Courses" may be included.

It is recommended that students also elect courses dealing with European civilization.

HONORS

Director: Mr Aaron

Honors students in American Studies must register for 31a and 40b. Their programs must include at least one unit or seminar in their junior and their senior years, the writing of a long paper, and comprehensive examinations.

GENERAL LITERATURE

(This major is open to the class of 1961 but will not be offered thereafter.)

Adviser to the major: Mr Connelly.

Advisory Committee: Mr Graham, Mr Guilloton.

INTERDEPARTMENTAL MAJORS

This major allows the student to concentrate in the literature of two languages: English and one foreign language, or two foreign languages. Students who plan to elect this major and have entered with fewer than three units of Latin or Greek or a combination of the two will be required to take Latin 12b, Greek 11, 12a, General Literature 291, or six hours of the classics in translation. Whenever possible, they should begin to plan the major in the spring of freshman year, and they will not be allowed to enter it later than the fall of junior year.

Based on two of the following: General Literature 291, Greek 12a and 12b or Latin 14a and 14b, English 21, French 25 or 26, German 26, Italian 26, Spanish 25, Russian 21a and b. (When General Literature 291 is used as a basis, students who offer English as one of the two literatures are urged to take English 21 in addition to the major in the junior year.)

Essential Courses: twelve semester hours in literature courses in each of the two departments of concentration (eighteen of these twenty-four hours must be above Grade II); six semester hours of a third literature either in the original or in translation; General Literature 40b (review unit).

The student is expected to attain a knowledge of the development of two modern literatures in each of two comparable periods, or (if one of her choices is Greek or Latin) a knowledge of the influence of a major classical figure or genre on a modern literature.

Optional Courses: supplementary literature courses in other periods and relevant courses in other fields.

HONORS

Director: Mr Connelly.

Students taking honors in General Literature are expected to fulfill the same general requirements as the regular majors and to attain (1) a knowledge of the development of two modern literatures in each of two comparable periods, or (if one of the choices is Greek or Latin) a knowledge of the influence of a major figure or genre on a modern literature, and (2) a special understanding of at least one major figure in each of the principal literatures chosen. Their programs must include the writing of a long paper and general examinations, and ought to include at least one unit or seminar each year.

SCIENCE

The interdepartmental majors in science are designed as preparation for (1) professional schools such as medicine, public health, or nursing; (2) graduate study in those fields which involve a thorough knowledge of more than one science, *e.g.*,

INTERDEPARTMENTAL MAJORS

biochemistry, biophysics, or bacteriology; (3) laboratory work. Because it is advantageous to have basic training in chemistry, physics, zoology, and mathematics, it is urged that the student see the advisers of these majors as early as possible in freshman year.

Students planning to enter schools of nursing may consult Mrs Hobbs for information concerning entrance requirements for these schools.

BACTERIOLOGY

The Interdepartmental Major may be found in the offerings of the Department of Bacteriology and Public Health.

BIOCHEMISTRY

Adviser to the major: Mr de Villafranca, Mr Sherk.

Essential Courses: Bacteriology 22; Chemistry 11 or 12, 21, 31a and six additional hours of chemistry; Zoology 12 or 22, 32a and b, 42a.

(Zoology 42a will serve as the integrating course in this major.)

Optional Courses: other courses in chemistry, bacteriology, zoology, physics, mathematics, or botany with the approval of the adviser.

HONORS

Directors: Mr de Villafranca, Mr Sherk.

Prerequisites, normally taken before junior year: Chemistry 21; Mathematics 12 or 13; Zoology 12 or 22.

Program:

Requirements: Bacteriology 22; Chemistry 31a and six additional hours of chemistry; Physics 11 or 15; Zoology 32a and b, 42a; three hours throughout senior year on a problem, paper, reading, and review.

Optional Courses: courses in chemistry, physics, bacteriology, zoology, mathematics, or other related fields by permission of the director.

Examinations: one in chemistry, one in physiology, one selected according to the student's program.

PREMEDICAL SCIENCE

Advisers to the major: Mrs Hobbs.

The courses listed represent the minimum requirement for entrance to most medical schools, but as these differ from one another it is advisable for students to

INTERDEPARTMENTAL MAJORS

decide in the spring of freshman year which school they plan to enter and include any additional courses necessary. Thirty hours in the major are required in the three upper years of which eighteen must be above Grade II.

40b Directed reading in the history of medicine from the standpoint of concurrent developments in chemistry, physics, and zoology.

Essential Courses: Chemistry 11 or 12, 21, 31a; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; Zoology 22; Premedical Science 40b; a college course or its equivalent in German, French, Russian, or Spanish.

Optional Courses: other courses in chemistry, physics, mathematics, or zoology. Sociology 32a, 32b, or Psychology 36a and b may be substituted with the permission of the adviser.

Students may also prepare for medical schools by majoring in any department, if they include in their schedules the courses suggested above as the minimum requirement. They may consult the adviser of this major about their choice of courses.

HONORS

Director: Mrs Hobbs.

Prerequisites, normally taken before junior year: Chemistry 31a; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; a college course or its equivalent in German, French, Russian, or Spanish.

Program:

Requirements: Chemistry 21; Mathematics 12 or 13; Zoology 22; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, physics, zoology, mathematics, or bacteriology. Sociology 32a, 32b, or Psychology 36a and b may be substituted with the permission of the director.

Examinations: one in chemistry, one in zoology, one selected according to the student's program.

Graduate Study

Smith College offers to graduate women programs leading to the degrees of Master of Arts, Master of Arts in Teaching, Master of Education, Master of Science in Physical Education, and Doctor of Philosophy. For foreign students, programs for a Certificate of Graduate Studies are available. Ordinarily about eighty women students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Students at Smith College who have received a baccalaureate degree from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students— those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students— those college graduates, men or women, who are receiving instruction in the college without reference to the attainment of an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The requirements for the degrees of Master of Arts, Master of Education, and Master of Arts in Teaching may be fulfilled in one year by well-prepared full-time students; for the Master of Science in Physical Education, in two years (in one year by specially qualified students). The degree of Doctor of Philosophy is offered in a limited number of departments and requires at least three years of advanced studies including one year at another institution.

FELLOWSHIPS AND SCHOLARSHIPS

The College offers several fellowships and scholarships which are open to graduates of Smith College and to women graduates of other colleges of good standing. Special scholarships are available for study in education and in physical education. Other fellowships are offered to students from foreign countries.

The science departments and the departments of music and theatre offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

INFORMATION

Full information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin, an application blank for admission, and other information may be obtained from the Secretary to the Committee on Graduate Study.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen and sophomores are allowed only a limited number of nights away from the campus in each semester. At the beginning of the junior year, the student herself assumes the responsibility for upholding the principle of residence. Within this framework, it has been possible for the faculty to grant to all students except freshmen and those whose standing is below diploma grade the responsibility for their own class attendance on all except the opening and closing days of a session. To those students whose homes cannot be reached within thirty-six hours of travel time from Northampton (by the means of transportation actually used) special permission may be given to extend the winter recess not more than a total of 48 hours for travel time privilege, either at the beginning or at the end.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to seventy students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college, except when students are admitted from a waiting list. A student may move from one house to another once during her college course, the order of assignment after the freshman year being determined by lot.

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In most of the houses there is also a

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resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Every student is asked to contribute up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Daily services are held weekday mornings, except Wednesday and Saturday, in the Helen Hills Hills Chapel, and Sunday chapel services bring outstanding clergymen to the campus. Three voluntary religious organizations, the Christian Association (Protestant), Hillel Foundation (Jewish), and the Newman Club (Roman Catholic), offer programs of worship, study, and service, while cooperative educational and community service projects are undertaken by the Religious Association, of which every student is a member. The Chapel houses a Religious Center, with meeting rooms for these groups, and offices for the chaplain and his assistant. Northampton churches welcome students at their services and activities. Thus the opportunity is provided for students of each faith to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of four resident physicians. The Doctors' Office and the Elizabeth Mason Infirmary provide medical care and facilities for treating normal illness. For unusual or serious illness, the services of specialists in Northampton and Springfield are available. The Health Service also emphasizes preventive medicine by exercising supervision over the health of the dormitory staffs and working closely with the College Dietitian.

The Elizabeth Mason Infirmary is a fully registered hospital with a normal capacity of sixty beds and an emergency capacity of ninety. In addition to administrative personnel, its staff includes a registered laboratory technician, a registered x-ray technician, a dietary supervisor, and eleven registered nurses.

The College has arranged to cooperate with a reputable insurance company in offering a voluntary insurance plan which protects the student over a twelve-month period, whether in residence at college or not. Students are strongly urged to take out this insurance, which gives unusual protection, in addition to that which the College offers without charge.

In the interests of individual and community health, every student is expected to comply with the health regulations which are printed in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office serves as a placement bureau for both alumnae and seniors who are seeking permanent positions, and for underclassmen who wish placements for the summer.

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The staff assists students of all four classes in selecting their future occupations and in relating their courses to these occupations. The office provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers who visit the campus.

Letters of recommendation for seniors and alumnae are filed with the Vocational Office and will be sent upon request to prospective employers and scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

SEELYE HALL, given by friends of President Seelye, contains classrooms for over fifteen hundred students, the laboratories of the Department of Geology and Geography, and department offices.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing needed seminar and class rooms.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and students, contains a large reference room, general reading and study rooms, department seminar rooms, a Rare Book Room, and a room for the college archives. The Browsing Room, furnished as a private library, offers opportunity for leisure-hour reading. A wing was built in 1937 to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

The Smith College Library contains 437,813 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings. The open-shelf system permits free access to all books.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made this first art gallery possible, is equipped with studios and exhibition rooms, the Drayton Hillyer Art Library of twelve thousand volumes, and collections of thirty-six thousand photographs and sixty-three thousand slides. Graham Hall, a lecture hall seating 265, was added through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art were transferred to it from the Hillyer Gallery. The museum also contains galleries for loan exhibitions, which are arranged under the auspices of the Museum to supplement the permanent collections.

GENERAL INFORMATION

Named in honor of Mrs Russell Sage, SAGE HALL is the music building, containing classrooms, offices, practice rooms and listening rooms, a library of seventy-five hundred books and twenty-five thousand scores, and a collection of twenty thousand records. It also has an auditorium seating 743, and is equipped with apparatus for motion pictures.

THE STUDENTS' BUILDING, designed in 1903 to be the center of the social life of the students, is now the home of the Smith College Theatre. Classrooms and offices of the Departments of Speech and of Theatre are also located in this building.

PIERCE HALL, until 1924 the music building, was then named in honor of Professor Arthur Henry Pierce and is devoted mainly to the Department of Psychology.

LILLY HALL OF SCIENCE contains the lecture rooms, laboratories, and library of the Department of Physics. It was the gift of Alfred Theodore Lilly.

STODDARD HALL, the chemistry building, named in honor of Professor John Tappan Stoddard, was built in 1898 and enlarged by an addition in 1918. It contains a lecture room, library, laboratories, classrooms, offices, and modern research equipment.

BURTON HALL was named for President Burton and was opened for use in September, 1914. It is equipped for the study of the biological sciences.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains a large floor for basketball, badminton, and tennis backboard, as well as two bowling alleys and four squash courts.

THE SCOTT GYMNASIUM was named in honor of Col. Walter Scott. It contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL is used by the Department of Education and Child Study for the Smith College Day School. In addition to the classrooms there is an assembly hall seating 170. Adjoining is a large playground.

THE ELISABETH MORROW MORGAN NURSERY SCHOOL, acquired through the bequest of Mrs Morgan of the Class of 1925, occupies a site adjoining the Smith College Day School.

The clinical offices of the Health Service are located in GATEWAY HOUSE.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemorates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of Frank H. Mason whose gift completed the fund raised by the Alumnae Association. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers'

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Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fireproof Infirmary with a normal capacity of sixty patients which could be increased in emergencies to ninety.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the Association staff, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, the student recreation building, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-five stops, built in 1955, was presented by Mrs Hills as a memorial to her husband, James Mandly Hills.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built on the new Athletic Field in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment and skates and skis, it contains a lounge, a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-two hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park, Park Annex, and 150 Elm Street, Tenney (cooperative, for upperclassmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons and Parsons Annex, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, Graduate (30 Belmont Avenue).

EXPENSES

TUITION AND RESIDENCE FEE \$ 2,500.00
 One half payable in advance of the beginning of each semester.

PRELIMINARY PAYMENTS

Registration for application for admission \$ 15.00
 Not refunded or credited.

Deposit payable on or before June 1 preceding entrance \$ 50.00
 Not refunded for new students in case of withdrawal before entrance. Refunded after graduation. Also refunded to members of the three upper classes in case of withdrawal if notice in writing is filed with the Registrar prior to July 1 for the first semester, or prior to December 1 for the second semester.

OTHER FEES AND CHARGES

Infirmary charge per day \$ 10.00

Each student may have Infirmary care for six days each year without charge, but no more than two free days may be used for any one illness. The usual charges will be made for special nursing care and for services of physicians or specialists from outside the College.

Linen fee (annual) 12.00

Fees for courses in practical music

Vocal or instrumental, for the college year:

One hour lesson a week	\$ 150.00
One half-hour lesson and two class hours	100.00
One additional half-hour lesson taken for extra credit	75.00
Courses in ensemble when given individually	50.00
Use of practice room and a college instrument	15.00
Use of practice room only, one hour daily	7.50
Use of organs, one hour daily	35.00

Fees for classes in riding

Freshmen

Sophomores

Fall term	\$50.00	\$ 70.40
Winter term	80.00	80.00
Spring term	46.80	67.20

Materials for courses in technical art at cost

GRADUATION FEE \$ 15.00

ESTIMATED ADDITIONAL EXPENSES

Books each year, approximately	\$ 125.00
Subscriptions and dues, student activities	25.00
Gymnasium outfit for physical education	22.85
Recreation and incidentals	from \$100 to \$150

FEE FOR NONCOLLEGIATE STUDENTS for each three-hour course 125.00

FEE FOR AUDITING, per course 5.00

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students of marked ability who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to \$1500, ten regional scholarships ranging from \$200 to \$1800, and ten residence scholarships each year. These scholarships are made possible through endowed funds given to the College for scholarship purposes, by an annual appropriation from general income, and by annual scholarship gifts from alumnae clubs and from other organizations.

All scholarships are awarded on the basis of high academic standing, personal qualifications, and financial need. They are given for one year only but may be renewed. Applications from entering students should be sent to the Director of Scholarships and Student Aid by February 1 of the year of entrance.

Scholarships of \$1000 are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for five years directly before the date of their admission to college, provided they are able to satisfy the full requirements of admission; this grant is continued through their college course provided they maintain diploma grade, conform to the regulations of the College, and continue to be residents of Northampton or of Hatfield.

Scholarships of varying amounts are awarded to foreign students. For these special application should be made to the Committee on Foreign Students.

Smith College participates in the Seven College Conference Scholarship Program. A student living in Colorado, Kansas, Missouri, Nebraska, Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas, California, Idaho, Oregon, or Washington may compete for one of these scholarships. For details about this program applicants should write to the Director of Admission before January 31 for the next academic year. The participating colleges are Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley.

These same colleges, with many others, also participate in the College Scholarship Service of the College Entrance Examination Board which acts as a clearing house for scholarship applications, sending to the college concerned the financial information from the parents or guardians. The College itself, however, makes all final decisions on actual scholarship awards, which are announced in May.

The College awards fifteen scholarships in music each year.

Endowment funds given to the College for scholarship aid are listed on pages 168ff.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing:

The Neilson Scholarships. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

SCHOLARSHIPS

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This provides full tuition for a student in the first group.

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

COOPERATIVE HOUSE AND RESIDENCE SCHOLARSHIPS

Tenney House, originally established as the gift of Mrs Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

In memory of Mrs Tenney, ten scholarships have been established known as the Tenney Residence Scholarships. These consist of \$100 each to be applied toward residence in any college house. They are awarded to students of approved character and scholarship in the three upper classes.

SELF-HELP

The College undertakes general supervision of the remunerative work done by undergraduates. Students wishing any kind of employment during the college year should register with the Director of Scholarships and Student Aid. Only a limited amount of work is available, most of which is given to students of the three upper classes.

LOANS

Smith College believes that students seeking financial aid for college should apply for loans as well as for scholarships. The College therefore has loan funds available on generous repayment terms. The Smith Students' Aid Society, Inc., an organization of Smith alumnae, also makes funds available for loans to members of the three upper classes on the same generous repayment plan. All applications for loans should be made to the Director of Scholarships and Student Aid by February 1 preceding the academic year for which financial aid is requested. Later applications will also be considered when necessary.

FELLOWSHIPS

The announcement of fellowships awarded for graduate work including those open to students from foreign countries is in the *Bulletin of Graduate Studies*.

ENDOWED SCHOLARSHIPS, FELLOWSHIPS & PRIZES

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Charles Clinton Abbey	\$ 55,540.74
Herbert Vaughan Abbott	7,121.65
Dorothy S. Ainsworth	11,684.92
J. J. Albright	6,700.00
Susan Fuller Albright (Buffalo Smith Club)	10,000.00
Louise Partridge Andrews Memorial	2,467.00
Anonymous Scholarship No. 3	5,000.00
Elizabeth Arden	10,000.00
Elizabeth Harper Arnold Memorial	10,000.00
Alma Hoegh Ayers (Indianapolis Smith Club)	18,427.50
Nellie W. Bagg	7,000.00
Franklin Baldwin	1,200.00
Bartol	86,025.58
Birney Clark Batcheller	500.00
Suzan Rose Benedict	10,020.47
Mary Nichols Billings	5,000.00
Mildred Louer Bird	16,000.00
Morris A. Black	2,000.00
Carolyn Peck Boardman Memorial	5,165.00
Clara P. Bodman	4,800.00
Wilmo Owens Bowman	3,689.00
Ethel H. Bradley	2,000.00
Annie Kimball Brown Memorial	5,000.00
The President Burton Memorial	33,512.03
Grace A. Buxton	4,024.91
Jessica White Cabot	18,445.60
Jean Cahoon Memorial	10,000.00
Gibson Lamb Caldwell Memorial	9,400.00
John A. Callahan	7,440.81
James R. Campbell	1,009.97
Canadian	20,402.88
Bessie T. Capen	5,531.25
James Saltonstall Carpenter	17,364.73
Helen Clarissa Gross Chandler	10,000.00
Esther Fanny Clapp Memorial	1,000.00
Elizabeth Marguerite Dixon Clark Memorial	17,000.00
Lavinia R. Clark	20,000.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Anne Louise Clarke	\$ 30,000.00
Mary Reynolds Clarke	30,000.00
Class of 1883—in honor of Elizabeth Lawrence Clarke	14,816.00
Class of 1887	10,000.00
Class of 1897	32,978.82
Class of 1898	8,122.50
Class of 1901	5,583.50
Class of 1904	25,000.00
Class of 1905	35,878.08
Class of 1906	26,000.00
Class of 1916	7,525.00
Class of 1919	31,455.17
Class of 1926	650.77
Class of 1930	23,832.25
Class of 1949	10,266.94
Class of 1950	10,112.78
Class of 1951	8,020.27
Class of 1952	7,903.04
Class of 1953	8,173.45
Class of 1954	4,775.10
Class of 1955	9,445.80
Class of 1956	12,926.63
Sara Hunt Clough Memorial	1,000.00
Harriet Redfield Cobb	8,753.62
Mildred E. Ford Cobb Memorial	29,635.00
Katharine Baylis Cochran	8,000.00
Hazel Winans Coe	25,861.92
Margaret Elmer Coe	20,000.00
Rebekah Armstrong Comfort	2,026.50
E. C. Converse	50,000.00
Alison Loomis Cook	16,969.47
Mary M. Cook	5,000.00
Augusta E. Corbin	9,500.00
Helen Hodgman Craig Memorial	20,000.00
Edith Angell Cranshaw	3,358.50
Katharine Sands Crispell Memorial	11,243.75
Charlotte Graves Cross	5,390.00
Bernice Barber Dalrymple	22,509.97
Danforth	22,500.00
Lt. Robert Lamont Darrah Memorial	1,225.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Virginia Winslow Davis	\$ 10,000.00
Paul Dudley Dean Memorial	4,080.00
Vivian Bubb Decker	1,000.00
Mary D. Dey	5,000.00
Anna N. Dice and John William Dice Memorial	2,000.00
Elizabeth Lind Dice	1,000.00
Elizabeth Lind Dice and John Dice Memorial	3,000.00
Eleanor Duckett and Mary Ellen Chase	10,000.00
Mary Carter Duncan	10,000.00
Elizabeth Edwards Memorial	5,000.00
Constance Elaine Memorial	5,000.00
Matilda Allen Farley	2,000.00
Elizabeth S. Fisk Memorial	2,000.00
Ida E. Fisk Memorial	2,000.00
Marietta Miles Fisk Memorial	2,000.00
Florida	2,680.00
Elizabeth Fobes	1,000.00
Clara and Joseph F. Ford	5,500.00
Edith Forrest Memorial	28,623.54
Jessie A. Fowler	40,000.00
Mary P. Fowler	15,000.00
Ruth Hawthorne French	12,000.00
Emily Frink	2,000.00
Fannie Furman Memorial (Rochester Smith College Club)	10,000.00
Eleanor N. Gaffield	10,000.00
Gamble	2,000.00
Helen Hadley Gander	15,000.00
Gannett Memorial	2,000.00
Carrie L. W. and Marion Gary	12,437.23
Anne D. Geller	104,012.72
Gertrude Gladwin Memorial	10,476.00
Howard Rogers Clapp and Howard Rogers Gleason Memorial	26,165.00
Jessie S. R. Goldthwait	10,000.00
Luman Webster Goodenough	9,987.50
Elizabeth Firestone Graham	21,231.25
Mary Louise Brown Graham	10,000.00
Elizabeth Bancker Gribbel Memorial	12,000.00
Ellen Clarissa Gross	10,000.00
Charlotte C. Gulliver Memorial	10,040.00
Julia Henrietta and Mary Gulliver	9,528.48

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
William Haas Memorial	\$ 9,971.50
Philip Hale	10,000.00
Elizabeth Deering Hanscom	46,221.69
Mary S. Harkness	10,000.00
Marion and S. Ralph Harlow	10,151.17
Emily Hazen	28,297.21
Sarah Henderson and James O. Hazen	20,100.00
Helen H. Hills	21,250.00
Anna Laura Holbrook	14,508.56
Esther R. Holmes	6,000.00
Ellen Holt	10,005.00
Lilian Clapp Holt	10,000.00
Charlotte Manning Hoover	5,435.42
Lucia Maria Houpt	2,500.00
Blanche W. Hull	10,000.00
Lillia Babbitt Hyde Foundation	30,000.00
William Bertram Imlach	8,650.82
Inman	14,883.69
Florence Jackson Memorial	9,553.19
Ruth Eckhart Jarvis	10,500.00
Emily Harris Jones	10,000.00
Elizabeth Jordan and Martha Hill Cutler	5,000.00
Werner Josten	25,000.00
Florence Hopwood Judd	8,158.13
Caroline E. Kilbon	200.00
Francis M. Knight	11,757.50
Ruth de Young Kohler	150,010.00
Ann Sherman Kouwenhoven Memorial	7,741.00
Jessie Stevenson Kovalenko	24,300.00
Kresge Foundation	40,000.00
Josephine Augusta Lane and Ruth Eleanor Lane	2,000.00
Mary Allison Lang Memorial	861.69
Mary Lanning Memorial	5,000.00
Lathrop Memorial	1,350.00
Latin American—Class of 1890	7,500.00
Caroline Saunders Lindeke	8,000.00
Agnes Linton	1,000.00
Alice and Florence Lord	5,023.64
Esther Lowenthal	9,760.00
Blanche Halladay Lyle	20,000.00

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Lyon Foundation	\$ 25,000.00
Jeannette Laws McCabe	56,355.62
Margaret H. McClelland	4,761.73
Helen Roberts McCormick	10,800.00
Ethelyn McKinney	34,000.00
Mr and Mrs John Loudon McMillan	50,000.00
Barbara McRoy	88,300.79
Carolyn Weston McWilliams	1,000.00
Emogene Mahony	2,829.41
Beatrice Austin Manning and John Henderson Manning	15,000.00
Maplewood Institute Memorial	5,000.00
Helen Ayer Marden	1,000.00
Dorothy R. Mendenhall	1,000.00
Mary E. Mensel	35,305.50
Mary Lightfoot Milbank Memorial	5,383.01
Margaret Mitchell	16,525.31
Jean Morron	25,000.00
Dwight W. Morrow	100,000.00
Nellie Eddy Mudge	2,000.00
Miriam Myers Memorial	9,500.00
Ida A. Nathanson	1,500.00
Ruth Perry Neff (Wisconsin Smith College Club)	5,905.17
William A. Neilson	15,000.00
Cynthia S. Newman	6,281.25
Anna Belle O'Brien	22,500.00
Lawrence Ottinger Memorial	5,000.00
Clare Davis Parker	34,340.42
Blanche M. Parkin	26,640.41
Alice Edgerton Parsons	5,000.00
Katharine Parsons	12,304.50
Martha Cobb Peabody	10,000.00
Barbara Whitney Peck	10,000.00
Harriet and Gurdon Pellett Memorial	44,628.81
Charlotte Foggan Phelps	10,000.00
Elizabeth Bartlett Phillips	5,000.00
Isabel Pickering	37,810.11
Clara B. Platner	10,000.00
Ellen Plimpton	7,002.50
Jessie Wells Post	50,000.00
Olive Higgins Prouty	44,566.25

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Edith Nichols Putney Memorial	\$ 1,771.49
Orlana Ranney	11,933.88
Louise Cornell Rausch	14,120.99
C. A. Dana Redmond and Spencer Udell Stranahan	514.00
Anne E. Rice	5,000.00
Dagmar Megie Ross Memorial	25,000.00
Christina Rounds Memorial	6,000.00
Samuel Runner	5,000.00
Lucy J. Russell	1,000.00
Margaret Roberts Sanborn	5,310.00
SCADS	20,000.00
Benjamin Scharps and David Scharps	2,500.00
Alice Goodwin Schirmer	5,000.00
Laura Shedd Schweppe Memorial	20,000.00
Edith Scott	8,000.00
Sadie D. Scott	8,000.00
Emma E. Scranton	1,000.00
Seaver	23,500.00
St. Agatha—Emma Sebring	14,000.00
Agnes Jeffrey Shedd	15,251.24
Edith Dudley Sheldon	1,500.00
Elsie Damon Simonds	82,575.00
Abby M. B. Slade	24,000.00
Andrew C. Slater	4,000.00
Anna Margaret Sloan and Mary Sloan	16,807.78
Eva Virginia Smith (1931)	1,000.00
Frances Grace Smith	72,770.55
Louise Smith	51,585.51
Smith College Club of Akron	11,625.00
Smith College Club of Baltimore	2,000.00
Smith College Club of Chicago No. 1	22,500.00
Smith College Club of Chicago No. 2	16,010.03
Smith College Club of Cincinnati	26,323.80
Smith College Club of Cleveland	26,393.07
Smith College Club of Detroit	24,784.61
Smith College Club of Fitchburg	5,000.00
Smith College Club of Milwaukee	14,649.50
Smith College Club of New Haven	18,013.24
Smith College Club of New York	15,000.00
Smith College Club of the Oranges	15,612.58

SCHOLARSHIP FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Smith College Club of Oregon	\$ 4,501.01
Smith College Club of Philadelphia	26,856.73
Smith College Club of Pittsburgh	8,000.00
Smith College Club of Rhode Island	12,000.00
Smith College Club of Rochester	21,000.00
Smith College Club of Seattle	10,901.28
Smith College Club of Washington	6,794.21
Smith College Club of Winchester	400.00
Florence Homer Snow	3,096.00
Annis Kendall Stearns (1910)	9,913.97
Caroline Lounsbury Steele Memorial	2,913.00
Strack	10,000.00
Nancy Strassburger Memorial	19,100.70
Anne Straw, Class of 1948	20,000.00
Otto Sussman	174,920.89
Emily Hitchcock Terry Memorial	3,000.00
Charles M. Thayer Memorial	3,000.00
Helen Rand Thayer	10,000.00
Julia Ball Thayer	6,000.00
Eva I. Titman	5,000.00
Roslyn Titman	5,000.00
Mabel Tower	20,170.96
Helen Ramsey Turtle Memorial	1,165.00
Sarah Sanderson Vanderbilt Memorial	50,000.00
Lulu Morris Wadley Memorial	5,000.00
Rodney Wallace	10,000.00
Sophia Billings Wallace	5,000.00
Sophia Ingalls Wallace	5,000.00
Jane O'Neil Wallis Memorial	10,765.00
Mary Rankin Wardner Memorial	5,000.00
Mary Byrd Wells Memorial	11,233.75
Westmoreland County (Pa.)	9,689.00
Julia Carolyn Weston	10,000.00
Margaret White Memorial	5,000.00
White Lodge	2,622.00
Catharine Lasell Whitin	10,100.00
Hiram Whittington	10,000.00
Harriet J. Willard Memorial	5,000.00
Mary B. Williams	65,019.90
Clara R. Williamson Memorial	20,000.00

PRIZE FUNDS

<i>Name of Fund</i>	<i>Amount of Principal</i>
Mary E. Wilson (Berkeley and San Francisco Smith College Clubs)	\$ 10,698.00
Wood	10,000.00
Ella Eames Wood	7,478.01
Robert M. Woods Memorial	5,000.00
Josephine Clews Wrightson Memorial	21,500.00
Rudolph Zinsser Memorial	22,036.25
Miscellaneous	24,527.59

FELLOWSHIP FUNDS

Alumnae Association	25,525.00
Harriet Boyd Hawes	13,000.00
Agnes Hunt Memorial	1,000.00
Frances Grace Smith	20,000.00
Jean Fine Spahr	32,373.71
Sarah Watkins Wilder and Sarah Wheaton Whipple	11,341.84
Fanny Bullock Workman	30,000.00
TOTAL	\$4,518,302.66

PRIZE FUNDS

The *Alpha Awards* are made annually by a committee of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually from 1955 through 1965 by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually for proficiency in German language and literature.

The *Elizabeth Babcock Poetry Prize* fund of \$2500, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates except those who have already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$300, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1085.47, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has

PRIZE FUNDS

done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Samuel Bowles Prize* fund of \$2002.69, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$2000, the income of which is awarded for excellence in Latin, to be tested by an examination upon an assigned portion of Latin literature: in 1960, Ovid, *Metamorphoses*, Book VIII; in 1961, Seneca, *Epistulae Morales*, 40, 47, 51, 53, 77, 82, 84, 88, 90.

The *Margaret Wemple Brigham Prize* fund of \$850, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$2000, given by Miss Mabel Brown 1887 in memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1000. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$5000, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

The *James Gardner Buttrick* fund of \$1000, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund given by the Very Reverend and Mrs. Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverno Prize* fund of \$2000, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$2500, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1000, the income to be awarded to the undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Dawes Prize* fund of \$1898.57, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$2555.34, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior

PRIZE FUNDS

classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination on an assigned portion of Greek literature: in 1960, Homeric Hymns II (*To Demeter*), and V (*To Aphrodite*); in 1961, Plato, *Charmides*.

The *Hazel L. Edgerly Prize* fund of \$500, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject.

The *Settie Lehman Fatman Prize* fund of \$5000, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the Senior Class or graduate students taking Music 42 or Special Studies in Composition or by a student in Music 33.

The *Harriet R. Foote Prize* fund of \$500, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

The *Henry Lewis Foote Memorial Prize* fund of \$500, given by his wife, Harriet Risley Foote 1886, the income to be awarded for excellence in classwork in Biblical courses.

The *Clara French Prize* fund of \$5000, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

The *Helen Kate Furness Prize* fund of \$1000, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words nor longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$600, given by her sister Mrs Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$5000, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1000, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a student in English 11, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$500, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

PRIZE FUNDS

The *John S. Mekeel Memorial Prize* fund of \$1,000, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$500, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

The *Mrs Montagu Prize* fund of \$400, founded by Mrs Abba Louisa Goold Woolson in honor of Mrs Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

The *Victoria Louise Schrager Prize* fund of \$2000, given in her memory by her family and Miss Marjorie Hope Nicolson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

The *Andrew C. Slater Prize* fund of \$1000, the income of which is awarded to an undergraduate for excellence in debate.

The *Frank A. Waterman Prize* fund of \$335, the income to be awarded to a senior who has done excellent work in physics.

1960 AWARDS

PRIZES

- Alpha Awards*: art, Polly Mudge, 1960; creative writing, Rosalie Warren, 1960; music, Harriet Kerney, 1960; theatre, Judith Ravel, 1960; dance, Eileen Conder, 1960.
- Academy of American Poets Poetry Prize*: Jane Yolen, 1960
- Anita Luria Ascher Memorial Prize*: Marian Neuhaus, 1960; Sandra Parker, 1962
- American Association of University Women Award*: Sandra Lincoln, 1960
- Elizabeth Babcock Poetry Prize*: Florence Kaplan, 1962; Wallis-Anne Miller, 1961; Iris Tillman, 1961; Jane Yolen, 1960
- Harriet Dey Barnum Memorial Prize*: Virginia Griffith, 1960
- Suzan Rose Benedict Prize*: Bonney McDowell, 1963
- Samuel Bowles Prize*: Carol Van Brunt, 1960; Julie Meyer, 1960
- John Everett Brady Prize*: Florence Johnson, 1962
- Amy Randall Brown Memorial Prize*: Blossom Hansen, 1963
- Vera Lee Brown Prize*: Kathleen Dunn, 1960; Elizabeth Strayer, 1960
- Yvonne Sarah Bernhardt Buerger Prize*: Eileen Conder, 1960; Judith Ravel, 1960
- James Gardner Buttrick Prize*: Mary Wayne, 1961
- Carlile Prize*: Alice Updike, 1960
- Sidney S. Cohen Prize*: Susan Ensworth, 1962; Ellen Lav, 1962; Arlene Schonberger, 1960
- Alison Loomis Cook Scholarship*: Susan Allen, 1961
- Ethel Olin Corbin Prize*: Jane Yolen, 1960
- Dawes Prize*: Marjorie Fine, 1960; Joan Zeldon, 1960
- Alice Hubbard Derby Prize*: Helen Turnbull, 1961
- Hazel L. Edgerly Prize*: Joan Gardner, 1960; Adriana Gianturco, 1960
- Settie Lehman Fatman Prize*: Linda Ostrander, G.S.
- Harriet R. Foote Prize*: Myrna King, 1963
- Henry Lewis Foote Memorial Prize*: Mary Mosher, 1960
- Clara French Prize*: Linda Kelsey, 1960
- Arthur Elis Hamm Scholarship Prize*: Helen Harbison, 1963; Alexandra Wolkowicz, 1963
- Frances A. Hause Memorial Prize*: Sandra Lincoln, 1960; Marcia Powidski, 1960
- Awards from the Mahony Fund*: Diana Brown, 1960; Joan Panetti, 1963
- Emogene Mahony Memorial Prize*: Nancy Gordon, 1960
- Samuel Michelman Memorial Prize*: Judith Fusek, 1960
- Guthrie McClintic-Katherine Cornell Prize*: Caroline O'Brien, 1960
- Victoria Louise Schrager Prize*: Mary Jane Long, 1960

1960 AWARDS

FIRST GROUP SCHOLARS*

Class of 1961

Honora Albert
Susan Allen
Nancy Barks
Elizabeth Bayne
Denise Belisle
Carol Brayden
Carol Chmura
Elisabeth Cole
Maureen Hechtel
Monica Heymann
Paula Johnson
Cora Kaplan

Sylvie Koval
Linda Lee
Louise Merrill
Mary Molyneaux
Carole Moyer
Christine Naumann
Joyce Sills
Phyllis Sirota
Joyce Skaggs
Carol Thomas
Janet Vogel
Mary Wayne

Class of 1962

Linda Bergin
Lois Blitzer
Margo Frey
Charlotte Johnson

Ellen Lav
Margaret Paine
Ruth Rosen
Sally Vance

Class of 1963

Louise Beachboard
Susan Beidler
Jane Braude
Doris Brown
Jennifer Chinlund
Teresa DeRiso
Helen Harbison
Carolyn Johnson
Myrna King
Margaret McIntosh

Julie Mendlow
Nancy Northam
Joan Panetti
Nancy Rosenberry
Patricia Smith
Suzanne Solomon
Miriam Steinbock
Susan Strong
Alexandra Wolkowicz

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

DEGREES

A. B.

Sidse! Anne Abbott	Elizabeth Andr�e Blumenthal
Nancy Jean Alford	Berta Jeanne Bollengier
Margaret Carswell Algeo	Sarah Bowles
Agnes MacKenzie Andreae	Susan Anne Boyd
Margaret Elizabeth Andreozzi	Katharine Bradford
†*Elda Anne Angen	Lynden Ryder Breed
Mary Leola Armour	Virginia Anne Brennen
Eleanore Agnes Arnovitz	Jane Martha Brenner
Mary Robin Axtell	Elizabeth Brooks
	Mary Chaplin Brooks
Marianne Babize	Anne Clayton Brower
Carolyn Marie Baker	Betsy Jean Brown
Lee Baldwin	Mary Alice Brown
Evlyn Hull Bardeen	Valerie Patricia Brumder
Susan Fran Baris	Constance Brutcher
Sara Louise Barker	Mary Alice Bryan
Karen Elizabeth Barner	Benita Parker Bryant
Nancy Knight Bassett	Sally Lyle Budlong
Anne Wilson Bates	Lynn Burrows
Elizabeth Jean Baumgartner	Annette Danforth Bush
Kay Theckla Bearman	Barbara Ann Bush
Elizabeth Bell Beatty	
Judith Morris Beebe	†Keren Elizabeth Call
Elizabeth Campbell Beidler	Florence Marie Campbell
Andrea Seeley Bellerose	Marian Gordon Campbell
†*Deborah Swan Bennett	Patricia Ann Carl
Juliet Clark Berger	Joan Page Carpenter
Anne Dorothea Bergerman	Dorothy Louise Carter
Anne Elizabeth Bick	Sarah Latta Carter
Barbara Mary Bidwell	Susan Elmendorf Carter
Ellen Alcorn Bishop	Sarah Tiffany Caswell
Frances Bland	Elizabeth Ann Catania (Freed)
Julia Doris Blauvelt	Sally Lewis Chase
Susan Judith Blindman	Hermine Chivian
Margaret Liston Bliss	Linda Chivian
Paula Lee Block	Ann Letha Clark

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1960 AWARDS

Susan Clark
 Anne Joy Cobb
 Virginia Frew Cochran
 Eugènie Helen Cochrane
 Julia Anne Coffin
 *Marjorie Dorothy Cohen
 Johanna Dunlop Collins (Duclos)
 Pamela Charlotte Colton
 Eileen Denise Conder
 Margaret Mary Connors (Nye)
 Anne Patricia Constantinople
 Gloria Irene Cook
 Stephenha Verdel Cook
 Elizabeth Southworth Corning
 Catherine Louise Coulton
 Marilyn Ann Coyne
 Olga von Klinkofstrom Craven

Mary Helen Daley
 Laura Provost Damon
 Barbara Penfield Dane
 Patricia Montgomery Daniells
 Saranne Elizabeth Davenport
 Judy Ann Davidson
 Diane Mary Davies
 Beverly Gail Day
 Pamela Day
 Myrna Dersofi
 Virginia Ann Dieckman
 Margaret Dietz
 Mary Clyde Dingman
 Helen Jean Dodenhoff
 Sarah Brooke Dolan
 Elizabeth Paxton Donaldson
 Alexandra Dracos
 Marian Meredith Drewry
 Kate Trecartin Driggs
 Kathleen Ann Driscoll
 Hannah Druker
 Kathleen Allen Dunn
 Sara Catherine Dunphy

Nancy Sarah Easton
 Oriel Eaton
 Ann Sutherland Edmonds
 Barbara Jean Engle (Lightner)
 Myrel Elaine Deirdre Ensley
 Margaret Anne Erlandson

Edith Crane Faile
 Ellen Rose Feinknopf
 Millicent Rose Feller
 Margaret Filoon
 Janet Isobel Fish
 Jacqueline Fishbein
 Linda Saunders Fisher
 Margaret Page Fitch
 Nancy Hope Fitter
 Shirley Nell Fleischer
 Suzannah Porter Flint
 Judith Anne Ford
 Dorothy Laurent Frantz
 Beverly Frost

†*Judith Christine Fusek

Sibley Gade
 Janet Gertrude Gamer
 Judith Margaret Garbera
 Constance Lee Gash
 Mary Ellen Gates
 Virginia Geary (Schendler)
 Lou Ann Gerber
 Irene Gershon
 Geraldine Diane Gibbons
 Isabelle Brenda Gibbs
 *Lynda Hall Gillespie
 Anne Gillingham
 Susan Toba Ginsburg
 Marilyn Gode-von Aesch
 Helene Goldman
 Susan Martha Goldman
 Helaine Goldwasser
 Mary Ayer Gordon

1960 AWARDS

*Nancy Lou Gordon
Joanne Newcombe Goward
Natalie Ruth Louise Grace
Anne Martha Grant
Barbara Sturtevant Green
Terrie Sue Grimm
Jean Ann Guinane
Bonnie Lynne Guy

Virginia Lane Haase
Elizabeth Morris Hall
Judith Kalis Halper
Elisabeth Alpha Hammond
Susan Elisabeth Hanff
Cornelia Elinor Hanna
Susan Elizabeth Hansen
Patricia Andrus Hanson
Sue Ellen Harris
Anne Carter Harrison
Sue Harrison
Jane Wenban Hastings
Frances Ann Hawkes
Mary Spaidal Hawkins
Marna Hayden
Roberta Branwhite Hayes
Patricia Ann Hearst
Sheila Faith Heifetz
Sonja Hein
Elizabeth Baird Hendrie
Sophia Abigail Henning
Elizabeth Talcott Herrick
Nancy Page Hersey
Jane Higginbotham
Hanna Higgins
Joan-Ellis Hill
Betsy Rose Himelfarb (Hess)
Cynthia Anne Hoffert
Helen Sherrill Hogen
Mary Margaret Holahan
Clare Wright Horsley
Polly Downer Hough

Ann Hovey
Margaret Damrosch Howard
Sharon Smith Huffman
Marcia Jane Hunkins

Diane Marilyn Isaacs
Susan Adele Israelson

Joan Jackson
Barbara Lou Jaros
Katrina Allen Jenney
Elizabeth Jane Johns
Alden Johnson
Barbara Ann Johnson
Janice Waring Johnson
Bonnie Priscilla Josephs
Natalie Quarrier Joss
Barbara Ellen Just

Sarel Mizzi Kandell
Rosalind Marcia Kaplan
Marcia Elaine Katra
Patricia Barry Keating
Victoria Read Kelly
Mary Ann Kemper
Nancy Maribeth King
Joan Woodward Kinney
Evelyn Eugenia Kircher
Susan Riker Kirk
Patricia Gail Kirkwood
Barbara Joan Koch
Daphne McIver-Campbell Koepfli
Katherine Anne Kolipinski
Judith Ann Koltun
Jo-Ann Krestan
LenEsta Kupferstein

Elsa Lambert
Margaret Estelle Lang
Elizabeth Jane Lapovsky
Alexandra Philomena Lappas
Judith Ellen Lass

1960 AWARDS

Lynne LeFaucheur
Emily Lucile Lehman
June Elizabeth Leland
Gretchen Leutheuser
Ellen Carol Levitt
Kathryn Marguerite Lewis
Nancy Cheney Lewis
Elizabeth Ann Libby
Alice Makely Lineberger
Ann Schuyler Linen
Susan Welles Livingston
Ruth Rae Lobovsky
Linda Anne Locklin
Dana Lombard
Margaret Longbotham
Nancy Ellen Lonsbury
Judith Anne Love
Jane Ellen Lubchansky
Anne Emma Luedinghaus

Kathleen McCally
Helen Margaret McClure
Jean Beatrice McGregor
Janet Emslie McIntosh
Mary Jessie McKeon
Sally Anne MacKinnon
Lyn McLane
Marcia Dicks McMillan
Denise Hazel McNamara
Nancy Jean Mackie
Louise Hartshorne Maguire
Martha Manchester
Katherine Barry Mann
Diana Harbrough Manton
Jean Taylor Marckwald
Mary Fowler Mason
Sara Jane Mathews
Dorothy Evelyn Matsis
Suzanne Lippincott Meagher
Constance Joan Medinger
Carol Barbara Meyerson

Marian Lucille Miles
Susan Eleanor Miller
Carolyn DeLano Milmoe
Alexandra Montgomery
Deborah Moore
Carolyn Marie Morton
Sibyl Ann Mould
Bonnie Lamond Moxey
Polly Mudge

Martha Nagle
Judith Anne Nash
Nancy Richardson Needham
Marian Mina Neuhaus
Nancy Newton
Albertine Noble
Carrita Nobles

Caroline Bush O'Brien
Gwendolyn Bush O'Brien
Helen Frances O'Brien
Judy Atwood Olmsted
Mary Ann Olson
Virginia Lynn Olson
Virginia Wells Onthank
Bonnie Brooks Orr
Diane Shirley Ostheimer
Jennie Thomas Ott
Nanette Elizabeth Owen

Margaret Gregory Pacsu
Linda Bryan Palmer
Caroline Leidigh Park
Elizabeth Humphreys Parker
Jean Davis Parmelee
Llewellyn Swayne Parsons
Margaret Harrison Parsons
Suzanne Hope Pasfield
Christine Marthe Vera Pathy
Patricia Maris Patterson
Frances Hall Patton

1960 AWARDS

Margaret Peale
Elizabeth Hope Pearce
Margaret Peck
Karlen Peterson
Sarah Cornelia Pickands
Deborah Lovell Plumley
Gail Frances Poliner
Gladys Candler Porter
Josephine McRae Powell
Marcia Lorraine Pyle

Cecily Alice Rains
Francesca Elizabeth Rappole
Brenda Raudenbush
Sarah Ethel Reid
Maureen Anne Relland
Sandra Down Reynolds
WanKyun Rha
Elizabeth Carolyn Richmond
Marybelle Schaefer Robinson
Joan Whittlesey Rodgers
Cynthia Peabody Ross
Joan Chandler Ross
Lynda Rounds
Ann Davidge Rowland
Lucille Rundin
Mary Pamela Russell

Elaine Paula Sallop
Carol Marjorie Salvage (Kochman)
Susan Ruth Sandler
Ellen Willis Satterthwaite
Alice Schultz (Walsh)
Ruth Betsy Schwartz
Enid Joan Schwartzwald
Jane Louise Sealey
Gloria Frances Seaman
Carol Elizabeth Sebold
Rita Eve Sepowitz
Gayle Eugenia Shaw
Anne Margaret Shea

Joan Virginia Sheard
Margaret Blair Sheffield
Nancy Havard Shepard
Paula Baillie Siegel
Faith Gayle Silver
Jane Ann Slemmer
Catherine Morris Smith
Janet Smith
Linda Gail Smith
Valerie Thurman Smith
Jan Spielman
Beverly Jane Stackpole
Margaret Ross Steck
Helaine Iris Steinberg
Ellen Jo Stern
Harriet Safford Stevens
Jane Lewis Stocker
Elizabeth Whiting Straus
Elizabeth Anne Strayer
Mary Carolyn Sumner
Nancy Helena Swinski
Judith Barbara Sykes

Joan Barbara Tanner
Cynthia Taylor
Elizabeth Ann Taylor
Margaret Rose Taylor
Mary Jean Taylor
Susan Brewster Taylor
Eleanor Addison Thomas
Sarah Dickinson Thomas
Mary Leavitt Thompson
Janet Thorndike
Sarah Livingston Timpson
Patricia Winslow Tisher
Cicely Kershaw Tomlinson
Calla Christina Torstenson
Helen Scott Townsend
Marilyn Ann Trauner (Lager)
Sandra Lois Travis (Rosenthal)
Martha Jarvis Trondle

1960 AWARDS

Josephine Mary Troxell
Barbara Ann Tunmore
Judith Taube Tutun

Kevyn Ungemah
Alice Beekman Updike

Elinor Margaret Valko
Carolyn Van Vleck
Reet Värnik

Phyllis Ann Wahler
Solace Huntington Wales
Amelie Alexanderson Wallace
Beverly Wallace
Patricia Joan Watson
Sherwood Tremain Watt (Sprinkel)
Barbara Mary Weinberg
Ida Beverley Wellford
Barbara Joy Welt
Lucy Grosvenor Wendell

Linda Weston
Mary Sibley Whitaker
Margaret Williams
Marie Williams
Joan Mary Wilson
Sandra Scudder Wilson
Marsha Ann Wiseheart
Karen Mary-Lee Witt
Sue Wolf
Phyllis Van Orman Woods
Andrea Ware Wright
Ann Wyckoff

Jane Hyatt Yolen
Diana Montanye Young

Helen Zanetti
Barbara June Zenn
Ann Zimmerman
Joanne Zissler
Rita Pearl Zodikoff

With distinction

*Dorothy Feldman
*Linda Carol Kelsey
*Helen Bograd Lautenberg
*Mary Jane Long
†*Judith Anne MacDonald

†*Anne Downing Rutenber
*Arlene Esther Schonberger
†*Diane Thompson
*Gail Bloom Williams

HONORS

Cum laude

Roberta Christie Barnard, *Religion*
 Suzanne Renate Baum, *Government*
 Deborah Ann Berman, *Sociology*
 Katherine Katama Bonthron, *Philosophy*
 Joan Myra Cannon, *Religion*
 Edith Murray Christian, *History*
 Roberta Louise Cohen, *Music*
 Carolyn Elaine Connors, *English*
 Sarah Russell Cox, *American Studies*
 Ann Crockett, *Religion*
 Sarah Jane Cunningham, *Government*
 Barbara Harriet Desind, *English*
 Kathryn Ann Dineen, *History*
 Mary Weston Dominick, *History*
 Deborah Louise Doolen, *Government*
 Susan Reva Falk, *Psychology*
 Rachel Meredith Fisher, *History*
 Grace Gail Gardner, *Psychology*
 Judy Rae Glassman, *English*
 Adelaide May Goodman, *English*
 Carol Sonya Haley, *Government*
 *Katherine Hart, *Religion*
 Eleanor Ann Hauser, *History*
 Caroline Kent Hibbard, *Art*
 *Arlene Benita Hirst, *American Studies*
 †Ann Kirsten Holmgren, *Zoology*
 Jaren Jeryl Jones, *Economics*
 Louisa Gawtry Machado, *Government*
 *Anne Fairclough Mansfield, *History*
 Marguerite Lisa Meyer, *Government*
 Sandra Louise Newman, *History*
 Rosalyn Bette Post, *Government*
 Jane Rosenberg, *English*
 Barbara Ruth Sayres, *Economics*
 Diane Ellen Thorndike, *Economics*
 Susan Ballard Whittlesey, *English*
 Jane Booth Wigglesworth, *Religion*
 Joan Wilen, *Music*

* Elected to Phi Beta Kappa

† Elected to Sigma Xi

1960 AWARDS

Magna cum laude

- †*Eva Julia Agoston, *Psychology*
- †*Karen Anne Alexander, *Mathematics*
- *Patricia Vauclain Andrews, *English*
- Diana De Groat Brown, *English*
- †*Rona Stephanie Copen, *Psychology*
- Elizabeth Masten Crocker, *English*
- *Sally Jane Davies, *French*
- *Susan Jane Dworski, *Music*
- Barbara Dee Estess, *Psychology*
- *Marjorie Anne Fine, *Government*
- *Joan Barbara Gardner, *History*
- *Adriana Gianturco, *History*
- *Peggy Ellen Gilder, *American Studies*
- *Cornelia Ann Grant, *English*
- *Susan Jennifer Gray, *English*
- *Virginia McNair Griffith, *Music*
- Pamela Adams Gundersen, *History*
- *Anna Brita Held, *Art*
- Deborah Anne Janney, *English*
- Virginia Lane Johnson, *Religion*
- †*Joan Elizabeth Johnston, *Zoology*
- *Orysia Karapinka, *History*
- *Harriet Nash Kerney, *Music*
- Etel Thea Kramer, *Art*
- †*Sandra Eleanor Lincoln, *Chemistry*
- Diane Ida Lunquist, *Spanish*
- *Diane Eunice Manchester, *Government*
- Wendy Marcus, *Government*
- Julie Ellen Meyer, *Sociology*
- *Margery Jane Micheltmore, *English*
- †Roberta Anne Morrison, *Biochemistry*
- Mary June Mosher, *Religion*
- *Barbara Spencer Newberry, *Religion*
- †*Nancy Henderson Niering, *Chemistry*
- *Elizabeth Carroll Waldron O'Connor, *Art*
- *Nancy Patterson, *Art*
- †*Marcia Joan Powidski, *Chemistry*
- *Judith Ann Ravel, *Theatre*
- Ana Clara Roigt, *General Literature*
- †*Naomi Maxine Serot, *Psychology*

- Mary Lou Shantz, *Government*
 *Caroline Rosemary Stanwood, *Philosophy*
 Eleanor Carey Thomas, *Philosophy*
 *Carol Van Brunt, *Economics*
 Rosalie Starr Warren, *English*
 *Linda Monroe Wentworth, *French*
 *Joan Marjorie Zeldon, *Government*

Summa cum laude

- †*Rhea Joy Cottler, *Zoology*
 *Elsabeth Joan Slaughtier, *Religion*
 *Frances Dallett Stokes, *French*

CERTIFICATE OF GRADUATE STUDIES

- Josefina Rodil Herrera, B.S. in Ch. E., Manuel Luis Quezon Educational Institution, 1955. Chemistry.
 Suppari Varasumanta, B.S., Boston University, 1959. Physical Education

M.S. IN PHY. ED.

- Fernanda Barroso Beltrao, Diploma de Licenciada em Educação Física, Escola Nacional de Educação Física e Desportos, Universidade do Brasil, 1949; Certificate of Graduate Studies, Smith College, 1959.
 Phyllis Anne Hoff, B.S. in P. Ed., University of Texas, 1957.
 Jacqueline Quinn Moore, B.S. in Phys. Ed., Tuskegee Institute, 1959.
 Judith Rinker, A.B., College of Emporia, 1955.
 Margaret Ann Roy, A.B., Brown University, 1958.
 Clara Jane Strait, A.B., Lake Erie College, 1958.
 Sylvia Jane Wilson, B.S. in Phys. Ed., Woman's College of the University of North Carolina, 1956.

ED. M.

- Mildred Nahum Carlson, A.B., Smith College, 1953.
 Carol Anne Clossay, B.A. in Ed., Ball State Teachers College, 1958.
 Nilza Waldeck de Carvalho, Diploma, Professora Primária, Instituto de Educação, 1954; Certificate of Graduate Studies, Smith College, 1959.
 Elizabeth Branch Ferrante, B.S. in Ed., Boston University, 1939.
 Elisa Ruth Hawkins, B.S., St. Francis Xavier College for Women, 1957.
 Renuka Raghavan, B.A., Nagpur University, 1957; B.Ed., Lady Irwin College, 1959.
 Winifred Scott Whittier, B.A., Dalhousie University, 1958.

1960 AWARDS

M.A.T.

Eleanore Stalker Foster, A.B., Smith College, 1959. English.
Susanne Katharine Haran, A.B., Smith College, 1959. History.
Anne Eleri Roberts, B.A., University College of North Wales, 1957. English.
Catharine Gaylord Kelly Van Rooten, A.B., Smith College, 1928. French.

A.M.

Eleanor Cecilia Banka, B.S., Brooklyn College, 1958. Geology and Geography.
Mary Ann Ploog Dankleff, B.A., Iowa State Teachers College, 1958. Chemistry.
Irene Elizabeth Elmer, B.A., Mills College, 1958. Theatre.
Diana Duncan Hull, A.B., Smith College, 1957. Music.
Eleanor Jackson, A.B., Smith College, 1958. Music.
Ila Jasani, B.A., Loreto College, Calcutta University, 1958. Education and Child Study.
Oya Korman, B.S., American College for Girls, Istanbul, 1958. Chemistry.
Blanche Enedra Leatherman, B.S., Morgan State College, 1955. Physics.
Kyoung Won Lee, B.S., Seoul National University, 1956. Physics
Patricia Anne Milne Henderson, B.A., Newnham College, Cambridge University, 1657. Art.
Linda Woodaman Ostrander, Mus.B., Oberlin College, 1958. Music.
Natalia Prajmovsky, B.A., Hofstra College, 1958. Geology and Geography.
Yolanda Marie Seys, Baccalauréat (Philosophie) Université de Lille, 1946; P.C.B. Certificat, Université de Lille, 1947. Bacteriology and Public Health.
Virginia Loretta Stroh, A.B., Smith College, 1957. Music.
Roberta Kimbrough Swarr, B.A., Pennsylvania State University, 1958. Theatre.
Ann Patricia Titterton, A.B., Trinity College, 1958. Chemistry.

HONORARY DEGREES

Ethel Grey Stringfellow

L.H.D.

Vera Brown Holmes

LITT.D.

Germaine Brée

LITT.D.

Florence Mary Kelley

LL.D.

Irene Barnes Taeuber

LL.D.

Mary Ingraham Bunting

LL.D.

Golda Meir

LL.D.

SCHOOL FOR SOCIAL WORK DEGREES

August, 1960

M.S.S.

- Jeannette Ann Albee, A.B., Wayne University, 1954.
 Barbara Lockwood Amatrudo, A.B., Albertus Magnus College, 1938.
 Velma Mildred Anderson, A.B., Hunter College of the City of New York, 1952.
 Nechama Makower Barzilay, Diploma, School of Social Work, Jerusalem, 1941; Certificate in Mental Health, London School of Economics and Political Science, 1947.
 Merriall Cecilia Giovanna Maria Boselli, B.A., M.A., University of Cambridge, 1941, 1949; Certificate in Social Science and Administration, London School of Economics and Political Science, 1942.
 Janet Mary Brighton, B.A., University of London, 1955; Certificate in Social Science and Administration, London School of Economics and Political Science, 1957.
 Olive Emma Caldwell, B.A., Queen's University, 1957; B.S.W., University of Toronto, 1959.
 Betty Jane Cleckley, B.S., Marquette University, 1958.
 Elizabeth Havens Choi, B.A., Wellesley College, 1958.
 Sylvia Kazin Cowett, PH.B., Pembroke College in Brown University, 1933.
 Shirley Ann Crossen, A.B., B.S. IN ED., Kent State University, 1953, 1954.
 Dorcas Lucretia Davis, B.S., Tuskegee Institute, 1958.
 Elisabeth Claire Drysdale, A.B., Skidmore College, 1958.
 Rose Marie Dubiel, B.A., University of Buffalo, 1958.
 Rose Feferberg, A.B., Brooklyn College, 1942.
 Edith Berthe Marie Gourjon, Diplôme d'Etat d'Assistante Sociale, Ministère de la Santé Publique, 1945.
 Arletta Mae Graves, B.S. IN BUSINESS ADM., West Virginia State College, 1936.
 Dorothy Johnson Gross, B.A., University of Wisconsin, 1931.
 Marion Witherspoon Hanks, A.B., University of Denver, 1951.
 May Jamieson Harrover, B.S., Cornell University, 1934.
 Mary Rita Hauser, B.S. IN P.H.N., Catholic University of America, 1950; M.S., University of Rochester, 1957.
 Carolyn Mary Hiltner, A.B., Bucknell University, 1958.
 Linda Pearsol Howard, A.B., Swarthmore College, 1958.
 Ann Marsden Irvin, A.B., Sweet Briar College, 1956.
 Marjorie Schneider Jaffe, B.S., Cornell University, 1958.
 Marion Meaux Johns, B.S.A.S., Lewis Institute of Arts and Sciences, 1933.
 Ruth Elaine Johnson, A.B., University of Redlands, 1942.

1960 AWARDS

- Gladys Eleanor Agnes Jones, Diploma in Social Studies, B.A., University of Dublin, 1955, 1956.
- Virginia Dale Kaufmann, B.A., University of Buffalo, 1952.
- Lucy Wen Lin, B.A., Ginling College, 1940; B.D., Yale University, 1955.
- Janice Heston McPherson, A.B., Oberlin College, 1958.
- Margaret Ann Gillespie Manly, Diploma in Public and Social Administration, University of Oxford, 1955; Certificate in Applied Social Studies, London School of Economics and Political Science, 1956.
- Harriet Held Mendoza, A.B., Smith College, 1943.
- Ann Hewlett Montague, B.S., Saint Lawrence University, 1951.
- Leona Garber Newman, A.B., Beaver College, 1931.
- June Kulamanu Oda, B.S., University of Hawaii, 1952.
- Vlasta Stanka Offner, B.A., M.A., University of Connecticut, 1956, 1958.
- Ann Marie Pappi, A.B., Smith College, 1956.
- Rose Marie Phillips, B.S., University of Pittsburgh, 1949.
- Marta Sotomayor Schlatter, A.B., University of California, 1955.
- Estelle Helene Silverman, A.B., Brooklyn College, 1958.
- Vida Marija Simenas, A.B., Smith College, 1957.
- Barbara Jean Smith, A.B., Antioch College, 1956.
- Margot Turitz, A.B., Bates College, 1957.
- Joan Osterman Yalman, A.B., Swarthmore College, 1945; A.M., Radcliffe College, 1948.

Smith College School for Social Work

THE STAFF

HOWARD J. PARAD, M.S. IN S.S.	<i>Director</i>
ESTHER H. CLEMENCE, M.S.S.	<i>Director of Field Work</i> <i>Associate Professor of Social Work</i>
HELEN PINKUS, M.S.S.	<i>Associate Professor of Social Work</i>
ROGER R. MILLER, D.S.W.	<i>Director of Research</i> <i>Associate Professor of Social Work</i> <i>Editor, Smith College Studies in Social Work</i>
HARRIS CHAIKLIN	<i>Assistant Professor of Social Work</i> <i>Supervisor of Research</i>
EUNICE F. ALLAN, M.S.S.	<i>Supervisor of Field Work</i> <i>Social Casework</i>
ELIZABETH C. JOHNSON, S.B.	<i>Executive Secretary and Registrar</i>

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. These at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include not only the better care of cases of mental illness and mental defect, but prevention of delinquency and the development of child guidance clinics. Psychiatric social workers were eagerly sought for the casework staffs of hospitals and community clinics and to carry preventive mental hygiene into courts, schools, and the public services. Social casework is a professional service which requires scientific knowledge and disciplined skill. Competent practice calls for the exercise of judgment and discretion.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

EDUCATIONAL PLAN

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of professional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, and medical social work.

Courses offered in any one term are planned as a sequence and to achieve a total integration. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and further the development of a professional attitude and point

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Forty-three agencies in twenty-four cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher. Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a weekly seminar throughout the winter.

During the field work period thesis subjects are selected and worked on under the guidance of members of the school faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A, the regular curriculum, covers three summer sessions in academic study on the Smith campus and two winter sessions in field work in agencies selected by and responsible to the School for the educational work.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory experience in an approved casework agency.

Plan C admits persons for a single summer session. Full credit will be given toward the degree provided the student is accepted for readmission to complete the course within a period of two years.

The School *Catalogue* giving full details for the coming year will be sent upon request.

Degrees

The Trustees of Smith College, on the recommendation of the staff, grant the degree of Master of Social Science (M.S.S.) on the following conditions: (a) completion of the period of residence, namely, a minimum of five quarters of full-time work; (b) satisfactory completion of the courses required, unless exempted by examination when advanced work may be substituted; (c) satisfactory completion of a thesis.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Admission

The Smith College School for Social Work is open to women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Director, Smith College School for Social Work, Northampton.

Expenses

The fee for each summer session is \$375 which covers tuition, room, and board. For each winter session the fee is \$150.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$2,000 are granted upon recommendation of the School by the United States Public Health Service and other Government agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1961-63

First Session	June to September 1961
Second Session	September 1961 to June 1962
Third Session	June to September 1962
Fourth Session	September 1962 to June 1963
Fifth Session	June to September 1963

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

PROGRAM OF ADVANCED STUDY

(Third Year)

This program of twelve months, July to July, is designed for experienced graduate caseworkers in preparation for practice, supervision, teaching, and administration. It is assumed that candidates undertaking this advanced curriculum will be preparing for positions of increased responsibility and leadership.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

The program consists of formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a more thorough understanding of the dynamics of personality and social environment and of treatment methods. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

The course is open to graduates of approved schools of social work who are well prepared in psychiatrically oriented casework, and who, following graduation, have had a minimum of three years of successful experience in a qualified casework agency.

The Board of Trustees of Smith College, upon the recommendation of the faculty, will grant a diploma to students who satisfactorily complete the course.

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Summary of Students in College

1960-1961

FRESHMAN CLASS (1964)	708
SOPHOMORE CLASS (1963)	551
England	1
Paris	3
JUNIOR CLASS (1962)	568
France	25
Guest Students	12
Geneva	21
Guest students	14
Israel	1
Italy	7
Guest students	7
Munich	4
Spain	9
Guest students	9
Toronto	3
SENIOR CLASS (1961)	477
Out of residence	10
TOTAL UNDERGRADUATES	2304
GRADUATE STUDENTS	102
FOUR COLLEGE STUDENTS	48
NONCOLLEGIATE STUDENTS	3
TOTAL	2457

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1961	Class of 1962	Class of 1963	Class of 1964	Graduate Students
Alabama	2	1	4	1	1
Alaska	0	2	1	2	0
Arizona	2	1	2	1	0
Arkansas	2	3	1	1	0
California	8	14	15	21	2
Colorado	6	2	4	7	0
Connecticut	54	66	47	80	5
Delaware	2	6	2	5	0
District of Columbia	8	9	8	9	1
Florida	4	7	9	5	4
Georgia	3	0	1	3	1
Hawaii	3	2	2	3	0
Idaho	0	0	0	2	0
Illinois	22	23	15	34	1
Indiana	1	5	4	4	3
Iowa	4	0	3	5	0
Kansas	2	3	3	3	1
Kentucky	4	1	2	1	1
Louisiana	2	0	1	3	0
Maine	8	6	6	5	1
Maryland	7	13	14	10	1
Massachusetts	80	81	73	87	43
Michigan	5	9	8	14	1
Minnesota	10	10	12	8	0
Mississippi	0	0	1	2	1
Missouri	6	13	8	9	0
Montana	0	3	1	1	0
Nebraska	0	0	2	3	0
Nevada	2	0	0	0	0
New Hampshire	4	4	4	9	1
New Jersey	48	62	50	79	2
New Mexico	0	0	0	2	0
New York	80	105	124	158	8
North Carolina	1	1	1	3	1
North Dakota	0	0	0	1	0
Ohio	19	30	23	37	3
Oklahoma	4	2	2	3	1
Oregon	1	0	2	1	0
Pennsylvania	22	31	35	37	1
Rhode Island	6	3	3	4	0
South Carolina	3	1	2	0	0

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1961	Class of 1962	Class of 1963	Class of 1964	Graduate Students
South Dakota	2	0	0	0	0
Tennessee	1	1	1	0	0
Texas	3	8	13	10	0
Utah	0	0	0	1	0
Vermont	1	7	0	7	1
Virginia	12	13	15	14	1
Washington	2	2	4	3	0
West Virginia	1	0	2	0	0
Wisconsin	6	5	7	8	1
Wyoming	0	1	1	0	0
	<hr/> 463	<hr/> 554	<hr/> 538	<hr/> 706	<hr/> 87
Argentina	0	0	1	0	0
Bermuda	1	0	0	0	0
Brazil	0	1	1	1	0
Canada	4	3	3	0	1
China	0	0	0	0	4
Colombia	0	0	1	0	0
Cuba	0	0	1	0	0
England	1	2	1	0	1
Finland	0	1	0	0	0
France	0	1	0	0	0
Ghana	0	1	0	0	0
Germany	1	1	1	0	0
Greece	2	2	0	0	0
India	1	0	0	0	2
Italy	0	0	0	0	1
Japan	1	2	0	0	0
Jordan	0	0	1	0	0
Kenya	1	0	0	0	0
Korea	0	0	0	0	1
Nigeria	0	0	0	1	0
Norway	0	0	1	0	0
Philippines	0	0	0	0	1
Poland	1	0	0	0	0
Rhodesia-Nyasaland	0	0	1	0	0
Singapore	0	0	1	0	0
Tanganyika	0	0	0	0	1
Thailand	1	0	0	0	0
Turkey	0	0	0	0	3
	<hr/> 14	<hr/> 14	<hr/> 13	<hr/> 2	<hr/> 15

Schedule of Midyear Examinations for the Year 1960-61

This schedule should be consulted before courses are elected.

The term "sectioned course" as used in this schedule means a course in which there are no hours of meeting in common for all the students of the course.

Examinations for courses not included will be arranged before the examination period.

	<i>Tues. Jan. 24</i>	<i>Wed. Jan. 25</i>	<i>Thurs. Jan. 26</i>	<i>Fri. Jan. 27</i>	<i>Sat. Jan. 28</i>
8:00-10:20	All classes scheduled for W Th F 2 except sectioned courses	Music 11 Music 21	All classes scheduled for Th F 4 except sectioned courses	French 22a French 13	Philosophy 11 Philosophy 24
10:45-1:05	All classes scheduled for M T W 2 except sectioned courses	All classes scheduled for M T W 3 except sectioned courses	All classes scheduled for M T W 12 except sectioned courses	English 30a Psychology 11a	All classes scheduled for Th F S 11 except sectioned courses
2:30-4:50	Economics 21	French 11d French 12 French 15 French 16 French 25 French 26	Education 23a Physics 11 Psychology 23a Second Semester Education 23b Psychology 23b	All classes scheduled for M T W 11 except sectioned courses	History 11

Schedule of Midyear Examinations for the Year 1960-61

Continued

EXAMINATION SCHEDULES

	<i>Mon. Jan. 30</i>	<i>Tues. Jan. 31</i>	<i>Wed. Feb. 1</i>	<i>Thurs. Feb. 2</i>
8:00-10:20	All classes scheduled for W Th F 3 except sectioned courses	Mathematics 12 Mathematics 13 Mathematics 21a Mathematics 22a	All classes scheduled for Th F S 10 except sectioned courses	General Lit. 291
10:45-1:05	Religion 11 Russian 11 Russian 21a Speech 11a Speech 12a	All classes scheduled for M T W 10 except sectioned courses	All classes scheduled for Th F S 12 except sectioned courses	All classes scheduled for Th F S 9 except sectioned courses
2:30-4:50	All classes scheduled for M T W 9 except sectioned courses	Italian 11 Italian 11b Spanish 11 Spanish 11b Spanish 12 Spanish 16 Spanish 25	German 11 German 11b German 12 German 26	All classes scheduled for M T 4 except sectioned courses

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NORTHAMPTON, MASSACHUSETTS

Visitors

Visitors are always welcome at the College. Student guides, whose headquarters are College Hall 1, are available for conducting tours of the campus. Their services may be reserved in advance by application to the Board of Admission.

Candidates for admission and pre-college students are urged to secure appointments in advance with the Director or Associate Director of Admission and, if they are interested in scholarship and self-help opportunities, with the Director of Scholarships and Student Aid.

Administrative offices in College Hall are open Monday through Friday from 8:30 A.M. to 4:30 P.M. At other times, including holidays, officers and staff are available only if an appointment is made in advance.

Correspondence

Inquiries of various types concerning Smith College may be made of the following officers and their staffs, either by mail or by interview. The post office address is Northampton, Massachusetts.

ADMISSION OF STUDENTS: Miss Jane Schmann, *Director*

RESIDENCE & GENERAL WELFARE OF STUDENTS: Miss Helen L. Russell, *Dean of Students*

SCHOLARSHIPS & SELF-HELP: Miss Mary E. Mensel, *Director*

GRADUATE STUDY & FELLOWSHIPS: Mr. Kenneth W. Sherk, *Director*

FOREIGN STUDENTS: Mr. Peter d'Alroy Jones, *Chairman of the Committee*

HEALTH OF STUDENTS: Dr. Elizabeth Grimm, *College Physician*, Gateway House

ACADEMIC STANDING:

Miss Eleanor M. Hadley, *Dean of the Class of 1962*

Miss Charlotte H. Fitch, *Dean of the Class of 1963*

Miss Elizabeth D. Robinton, *Dean of the Class of 1964*

Mrs. Arthur B. Musgrave, *Dean of the Class of 1965*

LOANS FROM STUDENTS' AID SOCIETY: Miss Emma B. Proctor, *Assistant Treasurer*

PAYMENT OF BILLS: Mr. William A. Bodden, *Treasurer*

DEVELOPMENT & PUBLIC RELATIONS: Mr. Herbert N. Heston, *Director*

TRANSCRIPTS & RECORDS: Mrs. Helen B. Bishop, *Registrar*

PUBLICATIONS: Mrs. Michael S. Olmsted, *Publications Secretary*

SCHOOL FOR SOCIAL WORK: Mr. Howard J. Parad, *Director*

ALUMNAE AFFAIRS: Mrs. Clifford P. Cowen, *General Secretary*, Alumnae House

ALUMNAE REFERENCES: Miss Alice N. Davis, *Director of the Vocational Office*

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1961

1962

1963

JULY							JANUARY							JULY							JANUARY									
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31														30	31						30									

College Calendar

FIRST SEMESTER, 1961-1962

THURSDAY, SEPTEMBER 14, 8:00 P.M., Freshman Registration and Meeting with Class Dean
FRIDAY, SEPTEMBER 15 through SUNDAY, SEPTEMBER 17, Freshman Orientation
MONDAY, SEPTEMBER 18, 9:00 A.M., First Chapel and Registration
TUESDAY, SEPTEMBER 19, 9:00 A.M., Classes begin
A DAY AFTER OCTOBER 2, Mountain Day (*holiday*)
MONDAY, NOVEMBER 6, Midsemester grades due
THURSDAY, NOVEMBER 23, Thanksgiving Day (*holiday*)
SATURDAY, DECEMBER 9, Free Day
MONDAY, DECEMBER 11 through WEDNESDAY, DECEMBER 20, Midyear Examinations
THURSDAY, DECEMBER 21 - MONDAY, JANUARY 8, 9:00 A.M., Winter Recess

INTERIM SESSION

MONDAY, JANUARY 8 through FRIDAY, JANUARY 26, College in Residence
SATURDAY, JANUARY 27 - WEDNESDAY, JANUARY 31, 9:00 A.M., Recess

SECOND SEMESTER, 1961-1962

WEDNESDAY, JANUARY 31, 9:00 A.M., Second Semester begins
SATURDAY, FEBRUARY 24, Rally Day
MONDAY, MARCH 19, Midsemester grades due
WEDNESDAY, MARCH 21, 12:50 - WEDNESDAY, APRIL 4, 9:00 A.M., Spring Recess
FRIDAY, MAY 11 through TUESDAY, MAY 15, Review days
WEDNESDAY, MAY 16 through SATURDAY, MAY 26, Final Examinations
SUNDAY, JUNE 3, COMMENCEMENT

OPENING OF COLLEGE 1962-1963

THURSDAY, SEPTEMBER 13 through SUNDAY, SEPTEMBER 16, Freshman Orientation
MONDAY, SEPTEMBER 17, 9:00 A.M., First Chapel and Registration
TUESDAY, SEPTEMBER 18, 9:00 A.M., Classes begin

The Board of Trustees

THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D., *President* Northampton

*Term
expires*

1964	LAURA CABOT HODGKINSON, A.B., <i>Chairman</i>	Boston, Massachusetts
1962	PAUL H. BUCK, PH.D., LL.D., LITT.D., L.H.D.	Cambridge, Massachusetts
1962	MARY BROOKS GRISWOLD, A.B.	New Haven, Connecticut
1962	ANTHONY L. MICHEL, B.A., LL.B.	Chicago, Illinois
1962	CICELY KERSHAW ROSENBERRY, A.B.	New York City
1963	ELLEN ZINSSER McCLOY, A.B., LL.D.	New York City
1963	CONSTANCE MORROW MORGAN, A.M.	Ridgefield, Washington
1963	FREDERICK M. WARBURG, A.B.	New York City
1964	HARVEY BROOKS, PH.D.	Cambridge, Massachusetts
1964	DOROTHY NEPPER MARSHALL, PH.D.	Bryn Mawr, Pennsylvania
1965	ALBERT H. GORDON, A.B., M.B.A.	New York City
1965	FREDERICK SHEFFIELD, A.B., LL.B.	New York City
1965	JANET MAHONY WILSON, A.B.	Washington, D.C.
1966	ANNE CLARK FISCHER, A.B.	Glencoe, Illinois
1966	JOHN ALLEN KROUT, PH.D., L.H.D., LL.D.	New York City

The Board of Counselors

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ALICE MOTT STINESS, A.B. (<i>Executive Vice-Chairman</i>)	Longmeadow, Massachusetts
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ALFRED M. RANKIN, B.S., LL.B.	Cleveland, Ohio
JAMES T. SOBY	New Canaan, Connecticut
HAROLD J. SZOLD, A.B.	New York City
ESTHER ZISKIND WELTMAN, A.B., M.ED.	Longmeadow, Massachusetts
A. HUNTER WHITE, LL.B.	St. David's, Pennsylvania

THE FACULTY

THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D.	<i>President and Professor of History</i>
MARY LILIAS RICHARDSON, A.M.	<i>Associate Professor Emeritus of Latin Language and Literature (1937)</i>
MARY BELLE McELWAIN, PH.D., LITT.D.	<i>Professor Emeritus of Classical Languages and Literatures (1942)</i>
FLORENCE ALDEN GRAGG, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1943)</i>
LAURA WOOLSEY LORD SCALES, B.L., L.H.D., LITT.D.	<i>Warden Emeritus (1944)</i>
ANNA ADÈLE CHENOT, A.M.	<i>Associate Professor Emeritus of French Language and Literature (1944)</i>
FRANK HAMILTON HANKINS, PH.D.	<i>Professor Emeritus of Sociology (1946)</i>
MARGARET GALE SCOTT, M.A.	<i>Associate Professor Emeritus of History (1946)</i>
H. LOUISA BILLINGS, A.M.	<i>Associate Professor Emeritus of Physics (1947)</i>
EMILY LEDYARD SHIELDS, PH.D.	<i>Professor Emeritus of Classical Lan- guages and Literatures (1948)</i>
SUSAN MILLER RAMBO, PH.D.	<i>Professor Emeritus of Mathematics (1948)</i>
JOY SECOR, A.M.	<i>Registrar Emeritus (1948)</i>
ELEANOR SHIPLEY DUCKETT, PH.D., D.LITT., L.H.D.	<i>Professor Emeritus of Classical Languages and Literatures (1949)</i>
ELIZABETH FAITH GENUNG, M.S. IN AGR.	<i>Associate Professor Emeritus of Bacte- riology (1950)</i>
ABBIE MABEL O'KEEFE, M.D.	<i>Associate Physician Emeritus (1950)</i>
ARTHUR WARE LOCKE, A.M.	<i>Professor Emeritus of Music (1952)</i>
ESTHER LOWENTHAL, PH.D.	<i>Professor Emeritus of Economics (1952)</i>
JESSIE YEREANCE CANN, PH.D.	<i>Professor Emeritus of Chemistry (1952)</i>
AGNES CARR VAUGHAN, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures (1952)</i>

Key for superscripts used in this section: † absent for the year; *absent for the first semester; **absent for the second semester; || with the Juniors in France; ‡ in Spain; § in Geneva; | in Italy; §§ in Germany; 'appointed for the first semester; 'appointed for the second semester.

THE FACULTY

KATE RIES KOCH, A.M., M.L.D.	<i>Associate Professor Emeritus of Landscape Architecture</i> (1952)
ANACLETA CANDIDA VEZZETTI, DOTTORE IN FILOSOFIA E PEDAGOGIA	<i>Associate Professor Emeritus of Italian Language and Literature</i> (1952)
GERTRUDE GOSS	<i>Associate Professor Emeritus of Physical Education</i> (1952)
KARL SCOTT PUTNAM, B.S. IN ARCH.	<i>Associate Professor Emeritus of Architecture</i> (1952)
SAMUEL RALPH HARLOW, PH.D., L.H.D.	<i>Professor Emeritus of Religion and Biblical Literature</i> (1953)
FREDERICK WARREN WRIGHT, PH.D.	<i>Professor Emeritus of Classical Languages and Literatures</i> (1953)
VERA A. SICKELS, A.M.	<i>Professor Emeritus of Speech</i> (1953)
ELIZABETH ANDROS FOSTER, PH.D.	<i>Professor Emeritus of Spanish Language and Literature</i> (1953)
ROBERT MERRILL DEWEY, A.M.	<i>Secretary Emeritus of the Faculty</i> (1953)
MARGARET BRACKENBURY CROOK, B.A., DIPLOMA IN ANTHROPOLOGY	<i>Associate Professor Emeritus of Religion and Biblical Literature</i> (1954)
MYRA MELISSA SAMPSON, PH.D.	<i>Professor Emeritus of Zoology</i> (1955)
MARY ELLEN CHASE, PH.D., LITT.D., L.H.D.	<i>Professor Emeritus of English Language and Literature</i> (1955)
HAROLD UNDERWOOD FAULKNER, PH.D., L.H.D.	<i>Professor Emeritus of History</i> (1955)
HALLIE FLANAGAN DAVIS, A.M., L.H.D., D.F.A.	<i>Professor Emeritus of Drama</i> (1955)
K. FRANCES SCOTT, PH.B., M.D.	<i>Associate Professor Emeritus of Hygiene</i> (1955)
LOUISE MARIE BOURGOIN, LIC. ÈS L., O.A.	<i>Associate Professor Emeritus of French Language and Literature</i> (1956)
HOWARD ROLLIN PATCH, PH.D., LITT.D.	<i>Professor Emeritus of English Language and Literature</i> (1957)
MIGUEL ZAPATA Y TORRES, PH.D.	<i>Associate Professor Emeritus of Spanish Language and Literature</i> (1957)
WILLIAN BEAUMONT SCATCHARD, B.MUS., B.S.	<i>Associate Professor Emeritus of Music</i> (1957)
SETH WAKEMAN, PH.D.	<i>Professor Emeritus of Education and Child Study</i> (1958)
VERA BROWN HOLMES, PH.D.	<i>Professor Emeritus of History</i> (1958)
C. PAULINE BURT, PH.D., SC.D. (HON.)	<i>Professor Emeritus of Chemistry</i> (1958)

THE FACULTY

MARY EVELYN CLARKE, PH.D.

BENJAMIN MARTIN SHAUB, PH.D.

MARGARET ALEXANDER MARSH, A.M.

ESTHER CLOUDMAN DUNN, PH.D., LITT.D.

CLARENCE KENNEDY, PH.D.

DOROTHY SEARS AINSWORTH, PH.D.
SC.D.(HON.)

MADELEINE GUILLOTON, LIC. ÈS L., A.M.

SARA BACHE-WIIG, PH.D.

FRANCES CAMPBELL MCINNES, A.M., M.D.

NEWTON ARVIN, A.B.

SIDNEY RAYMOND PACKARD, PH.D., JUR.D.
(HON.), L.H.D.

SOLON ROBINSON

RUTH LEE KENNEDY, PH.D.

MARION FRANCES BOOTH, A.B., B.SC., M.D.

SAMUEL ATKINS ELIOT, A.B.

ELIZABETH DREW, B.A.

RENÉ GUIET, DOCTEUR DE L'UNIVERSITÉ DE
PARIS

MARGARET HILL PEOPLES, PH.D.

MARTHE STURM, LIC. ÈS. L., DIPLOME D'ÉTUDES
SUPÉRIEURES

RUTH ELIZABETH YOUNG, A.M.

ELISABETH KOFFKA, PH.D.

RUTH WEDGWOOD KENNEDY, A.B.

Professor Emeritus of Philosophy (1958)
*Associate Professor Emeritus of Geology
and Geography* (1958)

*Professor Emeritus of Sociology and An-
thropology* (1959)

*Professor Emeritus of English Language
and Literature* (1960)

Professor Emeritus of Art (1960)

Professor Emeritus of Physical Education
(1960)

*Associate Professor Emeritus of French
Language and Literature* (1960)

Associate Professor Emeritus of Botany
(1960)

Associate Physician Emeritus (1960)

*Professor of English Language and Lit-
erature Retired* (1960)

Professor Emeritus of History (1961)

Professor Emeritus of Music (1961)

*Professor Emeritus of Spanish Language
and Literature* (1961)

*College Physician and Professor Emeritus
of Bacteriology and Public Health*
(1961)

Professor Emeritus of Theatre (1961)

*Visiting Professor Emeritus of English
Language and Literature* (1961)

*Professor Emeritus of French Language
and Literature* (1961)

*Professor Emeritus of French Language
and Literature* (1961)

*Professor Emeritus of French Language
and Literature* (1961)

*Professor Emeritus of Italian Language
and Literature* (1961)

Professor Emeritus of History (1961)

Professor Emeritus of Art (1961)

THE FACULTY

MARGARET KEMP, PH.D.

Associate Professor Emeritus of Botany
(1961)

STANLEY CURTIS ROSS, A.B., LL.D.

Associate Professor Emeritus of Economics
(1961)

CATHERINE A. PASTUHOVA, PH.D.

*Associate Professor Emeritus of Russian
Language and Literature* (1961)

JEANNE SEIGNEUR GUIET, M.A.

*Assistant Professor Emeritus of French
Language and Literature* (1961)

DANIEL AARON, PH.D.

*Professor of English Language and Lit-
erature*

GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)

Research Professor of Physics

JUAN BAUTISTA AVALLE-ARCE, PH.D.

*Professor of Spanish Language and Lit-
erature*

DOROTHY CAROLIN BACON, PH.D.

Robert A. Woods Professor of Economics

CLIFFORD RICHARDSON BRAGDON, A.M., ED.M.

Professor of Education and Child Study

MICHELE FRANCESCO CANTARELLA, A.M.

*Professor of Italian Language and Lit-
erature*

ESTHER CARPENTER, PH.D., D.SC. (HON.)

Professor of Zoology

GWENDOLEN MARGARET CARTER, PH.D.

Sophia Smith Professor of Government

HÉLÈNE CATTANÈS, DOCTEUR DE L'UNI-
VERSITÉ DE PARIS

*Professor of French Language and Lit-
erature*

ELY CHINOY, PH.D.

Professor of Sociology and Anthropology

JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ

*Professor of French Language and Lit-
erature*

VIRGINIA CORWIN, B.D., PH.D.

*Charles N. Clark Professor of Religion
and Biblical Literature*

†BIANCA DEL VECCHIO, DIPLOMA DI
MAGISTERO

Professor of Music

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HELEN LOUISE RUSSELL, PH.D.	<i>Dean of Students</i>
GEORGE WARREN DEVILLA FRANCA, PH.D.	<i>Assistant to the President</i>
WILLIAM ALBERT BODDEN, B.A.	<i>Treasurer and Controller</i>
HELEN BENHAM BISHOP, A.B.	<i>Registrar and Executive Secretary Com- mittee on Foreign Study</i>
KENNETH WAYNE SHERK, PH.D.	<i>Director of Graduate Study</i>
ELEANOR MARTHA HADLEY, PH.D.	<i>Dean of the Class of 1962</i>
CHARLOTTE H. FITCH, A.M.	<i>Dean of the Class of 1963</i>
ELIZABETH DOROTHY ROBINTON, PH.D.	<i>Dean of the Class of 1964</i>
BARBARA STEWART MUSGRAVE, PH.D.	<i>Dean of the Class of 1965</i>
BETTY BAUM, M.S.S.	<i>Student Counselor</i>
JANE SEHMANN, A.M.	<i>Director of Admission</i>
MARY ELIZABETH MENSEL, A.B.	<i>Director of Scholarships and Student Aid</i>
ALICE NORMA DAVIS, A.B.	<i>Director of the Vocational Office</i>
HERBERT N. HESTON, A.B.	<i>Director of Development and Public Re- lations</i>
CHARLES DEBRULER, B.S.	<i>Business Manager of Service Activities</i>
DOROTHY YOST GROFF, A.B.	<i>Director of Dormitories</i>
DOROTHY ADELINE HUEY, A.B., B.N., R.N.	<i>Director of Infirmary and Nurses</i>
GRACE PAULINE ASSERSON, A.B.	<i>Employment Manager</i>
DUDLEY HARMON, A.B.	<i>News Director</i>
VERNON DETWEILER GOTWALS, JR., M.F.A.	<i>Secretary of the Faculty</i>
FLORENCE MACDONALD, A.B.	<i>Secretary to the President and Secretary of the Board of Trustees</i>
PATRICIA CROCKETT OLMSTED, A.B.	<i>Secretary to the Dean and Publications Secretary</i>
DORIS SNODGRASS DAVIS, M.S., M.A.	<i>Assistant to the Dean of Students and Ad- viser to Foreign Students</i>
EMMA BROWN PROCTOR	<i>Assistant Treasurer</i>
JACK WILLIAM SIMPKIN, B.S., B.A.	<i>Assistant Controller</i>
WARREN FIEBUN WHITE	<i>Auditor</i>
DOROTHY G. SANER	<i>Assistant to the Registrar</i>

ADMINISTRATION

CHARLOTTE G. COHEN, B.B.A.

Secretary to the Committee on Graduate Study

NORMA EVELYN NELSON, M.S.S.

Associate Student Counselor

AVE MARIE MCGARRY, M.A.

Associate Director of Admission

ALICE CATHERINE KEATING, A.B.

Secretary to the Director of Admission

GRACE THORN FARJEON, A.B.

Associate Director of the Vocational Office

CAROLINE ELIZABETH SEATON, A.B.

Associate Director of the Vocational Office

WILLIAM E. FRENAYE, A.B.

Assistant Director of Development

RUSSELL FIELD CARPENTER, B.A.

Assistant Director of Development

MALCOLM DICKINSON FRINK

Assistant Purchasing Agent

LEROY BACON CLAPP

Assistant to the Purchasing Agent

MARY YOUNG O'NEAL, B.S.

Dietitian

PHYLLIS ANNA REINHARDT, A.M., S.M.

Curator of Books and Photographs, Department of Art

ERNA GOLDSTAUB HUBER

Curator of Slides, Department of Art

RUTH MARGARET AGNEW, M.A.

Curator in Music

MARY MILLWARD ANKUDOWICH, A.B., B.S.

Music Librarian

THE LIBRARY

MARGARET LOUISE JOHNSON, A.B., B.S.

Librarian

VIRGINIA THOMPSON ROGERS, A.B., B.L.S.

Assistant Librarian and Head of Circulation Department

CATHERINE M. BLIZZARD, A.B., M.S.L.S.

Reference Librarian

MARY GOREY DURHAM

Assistant in Charge of Department Libraries

GRACE FRANCES HOLT, B.A., B.L.S.

Head of Serials Department

DOROTHY KING, A.M., A.B.L.S.

Curator of Rare Books

EDITH MARGARET LIBBY, A.B., A.M.L.S.

Head of Order Department

ELSA JILLSON NICHOLS

Head of Documents Department

EDWINA ELY PEARSON, B.S.

Head of Reserve Book Room

RUTH RICHASON RICHMOND, A.B.

Assistant in Charge of Gifts and Exchanges

MILDRED C. STRAKA, A.B., M.S.

Head Cataloguer

ARCHIVES AND SOPHIA SMITH COLLECTION

MARGARET STORRS GRIERSON, PH.D.	<i>Archivist, Director of the Sophia Smith Collection</i>
ELIZABETH SEDGWICK DUVAL, B.A., B.S.L.S.	<i>Bibliographer, Consultant Sophia Smith Collection</i>

THE SMITH COLLEGE MUSEUM OF ART

PATRICIA A. MILNE-HENDERSON, A.M.	<i>Acting Assistant Director</i>
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THE SMITH COLLEGE DAY SCHOOL

HELEN EVANGELINE REES, ED.D.	<i>Director</i>
MARGARET SHORTLIDGE, A.M.	<i>Teacher</i>
ELSIE HARRIET KOESTER, A.M.	<i>Teacher</i>
NELSON R. OHMART, A.B.	<i>Teacher and Administrative Assistant</i>
ALICE R. BUTLER, B.S.	<i>Teacher</i>
DONALD F. FENN, M.S.	<i>Teacher</i>
DARDANA BERRY HOYT, B.S. IN ED.	<i>Teacher</i>
ELIZABETH DAVIS BERRY, A.B.	<i>Teacher</i>
MURIEL ANNETTE LOGAN, ED.M.	<i>Teacher of Physical Education</i>
ISABEL ANDERSON HOLDEN	<i>Teacher of Music</i>
RITA ALBERS JULES	<i>Teacher of Art</i>
LOUISE B. GARCIA, B.A.	<i>Teacher</i>
LUCY ELMER BALISE, M.A.	<i>Assistant Teacher</i>
CLAIRE CUTTEN MANWELL, A.B., M.D.	<i>Physician</i>

ELISABETH MORROW MORGAN NURSERY SCHOOL

HELEN EVANGELINE REES, ED.D.	<i>Director</i>
ISOBEL REYMES KING	<i>Teacher and Administrative Assistant</i>
SHAUNEEN SULLIVAN KROLL, A.B.	<i>Teacher</i>
CAROLYN HOBBS TILEY, A.B.	<i>Assistant Teacher</i>
CLAIRE CUTTEN MANWELL, A.B., M.D.	<i>Physician</i>

HEALTH SERVICE

ELIZABETH GRIMM, M.S., M.D.	<i>College Physician</i>
MARY FRANCES BROWN, A.M., M.D.	<i>Associate Physician</i>
PAUL HAROLD SETON, A.B., M.D.	<i>Associate Physician and Psychiatrist</i>
HERMAN EDELBERG, A.B., M.D.	<i>Associate Physician</i>
MARJORIE ROACH, A.B., M.D.	<i>Assistant Physician</i>
DOROTHY ADELINE HUEY, A.B., B.N., R.N.	<i>Director of Nursing and of the Infirmary</i>
VIRGINIA B. DELANEY	<i>Director of Health Service Clinic</i>

INFIRMARY

DOROTHY ADELINE HUEY, A.B., B.N., R.N.
 WILHELMINA POOR, MUS.B., R.N.
 DOROTHY SAUNDERS
 EILEEN B. MURPHY, B.S., R.T. (A.R.X.T.)
 ANNE M. KINGSBURY, B.S.
 GLADYS D. MARTIN
 ELIZABETH L. LANGDON
 HILDA CLARY MINSHALL, R.N.
 ELIZABETH VICKERS ABARNO, R.N.
 KATHRYN N. CUSHWAY, R.N.

Director of Infirmary and Nurses
Nursing Assistant to the Director
Administrative Assistant to the Director
Laboratory and X-ray Technician
Laboratory Technician
Dietary Supervisor
Medical Records Secretary and Receptionist
Head Nurse
Head Nurse
Head Nurse, Night

DEPARTMENTS OF BUILDINGS AND GROUNDS

PAUL DOUGLAS DAVIS, B.S. IN C.E.
 WILLIAM I. P. CAMPBELL

Superintendent
Horticulturist

HEADS OF HOUSE

JEANNETTE W. ADAMS
 MARGARET M. BABCOCK, A.B.
 MARGARET MARIE BARLOW
 LOIS BEAM BATESON, A.B.
 LOUISE MILLIKEN BRANDON
 GRACE BUELL
 HILDA MABLE BURN
 PATRICIA PARKS BUTTERFIELD, A.B.
 HELEN WOODS CHANDLER
 VIRGINIA L. CHRISTIE
 EDITH THO CHUBB
 SOLANGE CULBERT
 NANNIE DALE GLIDDEN
 VAGUIDE GUIREY
 KATHARINE C. HALE
 ELIZABETH KIRKHAM HAWKINS, B.A.
 RUTH B. HESSE
 DORIS ASHTON KING
 W. GRACE KING
 ELIZABETH LOWRY, B.L.
 FRANCES LUTTMAN-JOHNSON
 BERNICE B. MCGORRILL, A.B.

Northrop House
Ellen Emerson House
Gardiner House
Albright House
Cutter House
Sessions House
8 Bedford Terrace, 30 Belmont Avenue
Jordan House
Martha Wilson House
Director, Davis Student Center
Baldwin House
Dawes House
Chapin House
Dewey House, Clark House
Laura Scales House
Lawrence House
Tyler House
Wilder House
Morrow House
Tenney House
Morris House
Capen House

HEADS OF THE HOUSE

ELIZABETH CARROLL O'CONNOR
CORA RICHARDSON, A.B.
SARA BEAUVAIS ROSENTHALL
MARION F. RUMPF
MARIA G. SALAS
FAITH HAVILAND SCHULTE
DOROTHY M. STILLWAGON
MARIAN E. STRAIT, B.A.
MILDRED WICKSON SYMMES, B.S.
JULIA WARNER, B.S.
REBECCA E. WEDGWOOD, A.B.
MAUDE F. WOODBURY
DORIS MCKAY WOODS

Ziskind House
Talbot House
Washburn House
Parsons House, Parsons Annex
Franklin King House
Hubbard House
Gillett House
Hopkins Group
Comstock House
Lamont House
Park House, Park Annex, 150 Elm Street
Haven House, Wesley House
Cushing House

STANDING COMMITTEES OF THE FACULTY ON THE ORGANIZATION OF THE COLLEGE

COMMITTEES (*elected*)

The President, the Dean, Mrs von Klemperer (*chairman*) (1962), Mr Robertson (1962), Mr Burdick (1963), Mr Stenson (1963).

TENURE AND PROMOTION (*elected*)

The President (*chairman*), the Dean, Mr Duke (1962), **Miss Gabel (1963), Miss Wilson (1964), Mr Larkin (1965), Mr Hill (1966). Substitute for the second semester: Miss Elinor Smith.

FACULTY CONFERENCE (*elected*)

The President, the Dean, the Assistant to the President, the Director of Development, Mr Hill (1962), Mr Weinstein (1963), Mr Chinoy (1964), Mr Sherk (1965), Miss Wilson (1966).

ADMINISTRATIVE BOARD

The Dean (*chairman*), the Dean of Students, the Class Deans, the Registrar, the College Physician, Mr Elkins, Mr Mead, Mr Robertson.

CONFERENCE

The President, the Administrative Board, five members of the Student Council, four members of the House of Representatives.

BOARD OF ADMISSION

The President (*chairman*), the Dean, Miss Sehmman, Miss McGarry, Miss Russell, Mr McCartney, Miss Robinton, Mrs Whitmore, Mrs Musgrave.

COMMITTEES OF THE FACULTY

REGISTRATION OF STUDENTS

Miss Newhof (*chairman*), Miss Clute.

CURRICULUM AND GUIDANCE OF STUDENTS

EDUCATIONAL POLICY (*elected*)

The President, the Dean (*chairman*), †Mr Johnson (1962), Mr Josephs (1962), Miss Dorothy Bacon (1962), †Miss Helen Bacon (1963), Mr Cohn-Haft (1963), Miss Elinor Smith (1963), Miss Kenyon (1964), Mr May (1964), Miss Gertrude Smith (1964). Substitutes for one year: Mr MacSherry, Miss Muchnic.

HONORS

Miss Wilson (*chairman*), the President, the Senior Class Dean, the Junior Class Dean, Mr Durham, Mr Judson, Mr May, Mr Petersson, Mr Rowe.

FOREIGN STUDY

The Dean (*chairman*), the President, the Dean of the Junior Class, the Chairmen of the Departments of French, German, Italian, Spanish, Art, Government, History, the Treasurer, the Secretary of the Smith College Junior Year Abroad.

GRADUATE STUDY

Mr Sherk (*chairman*), the President, Mr Bragdon, Mr Cohn-Haft, Miss Mott, Miss Muchnic, Mr Johnston, Mr Jones, Miss Te Winkel.

FOREIGN STUDENTS

Mr Jones (*chairman*), Miss Dorothy Bacon, Mr Cohn-Haft, Mr Lewis Dabney, Mr Doubrovsky, Mr Durham, Mr MacSherry, Miss Navarro, Mr Parad, Miss Williams, Mr Unsworth, Mrs Davis and Miss Mensel (*ex officio*).

OTHER COLLEGE BUSINESS

LIBRARY

Mr MacSherry (*chairman*), the Librarian. Miss Gasool, Mr Mendelson, Mr Murphy, Miss Walsh.

LECTURES

Mr deVillafranca (*chairman*), Mr Aaron, Mr Burdick, Mr Connelly, Mr Rothman, Mr MacSherry, Miss Gertrude Smith.

*absent for the first semester

**absent for the second semester

†absent for the year

COMMITTEES OF THE FACULTY

MOTION PICTURES

Mr Brann (*chairman*) Mr Cohen, Mr Mead, Mr Monas, Miss Sonnenfeld, Mrs Cantarella (*secretary*).

SCHOLARSHIPS

The President (*chairman*), the Dean, the Dean of Students, Miss Mensel, Mr Bodden, Mrs Haigh, Mr Spees, Mr Jones.

STUDENTS' AID SOCIETY

Mrs Hobbs (*chairman*), Miss Lincoln.

HONORARY DEGREES

Miss Carter (1962), Mr Josephs (1963), Miss Randall (*chairman*) (1964).

JUNIPER LODGE

Miss Stobbe (*chairman*), Miss Hornbeak, Mrs McClumpha (*secretary*).

FACULTY OFFICES

Mr Petersson (*chairman*), Mr McCartney, Mr Van Voris.

SPECIAL COMMITTEES

MARSHALS

Mr Kenneth Sherk (*College Marshal*), Mr Burdick, Miss Benson, Miss Navarro, Miss Elinor Smith.

AID TO FACULTY SCHOLARSHIP AND PUBLICATION

The Dean (*chairman*), the President, the Assistant to the President, Mr Salvadori (1962), Miss Gertrude Smith (1963), Mr Chinoy (1964), Mr Weinstein (1965).

CHAIRMEN OF ACADEMIC DIVISIONS

- I THE HUMANITIES: Mr Graham
- II SOCIAL SCIENCES AND HISTORY: Miss Dorothy Bacon
- III NATURAL SCIENCES AND MATHEMATICS: Mr Wright

History of Smith College

Smith College began in the conscience of a New England woman. The sum of money with which the first land was bought, the first buildings erected, and the foundations of the endowment laid had been amassed by a man who, like many Americans, had made a fortune without any apparent ulterior purpose. He seems to have bequeathed it to his sister because he had not made up his mind what else to do with it. Sophia Smith left it for the founding of a college for women because after much perplexity, deliberation, and advice, she had concluded that thus she could best fulfill a moral obligation.

The advice had its inception in the mind of a New England minister. From John Morton Greene, Sophia Smith received suggestions which she pondered and discussed, and from among which she finally accepted that which we must acclaim as the wisest and most beneficent. The idea that Mr. Greene presented and Sophia Smith adopted is clearly expressed in a passage in Sophia Smith's will that must be regarded as their joint production, drafted by him, amended and approved by her. The language is as follows:

I hereby make the following provisions for the establishment and maintenance of an Institution for the higher education of young women, with the design to furnish for my own sex means and facilities for education equal to those which are afforded now in our Colleges to young men.

It is my opinion that by the higher and more thorough Christian education of women, what are called their "wrongs" will be redressed, their wages adjusted, their weight of influence in reforming the evils of society will be greatly increased, as teachers, as writers, as mothers, as members of society, their power for good will be incalculably enlarged.

Later, after enumerating the subjects which still form the substance of the curriculum of the College, she adds: "And in such other studies as coming times may develop or demand for the education of women and the progress of the race, I would have the education suited to the mental and physical wants of woman. It is not my design to render my sex any the less feminine, but to develop as fully as may be the powers of womanhood, and furnish women with the means of usefulness, happiness and honor, now withheld from them." She further directed that "without giving preference to any sect or denomination, all the education and all the discipline shall be pervaded by the Spirit of Evangelical Christian Religion."

NOTE:—Among the sources of this account are the historical addresses given by President William Allan Neilson on the Fiftieth Anniversary and by Ada Comstock Notestein '97 (former Dean of Smith and President of Radcliffe) on the Seventy-Fifth Anniversary of the College.

HISTORY OF SMITH COLLEGE

When one considers what would today be regarded as the somewhat narrow and puritanical type of culture in which the authors of these sentences were living, one cannot fail to be impressed by their wisdom, liberality, and farsightedness. The general terms in which the purposes of women's education are defined are perfectly valid today. Provision is made for change of outlook and development in the scope of education. While the fundamentally religious interest of the founder is stressed, the College is kept clear of entanglement with institutional Christianity, and the only prescription is the pervading of instruction by the spirit of the gospel of Jesus Christ. This injunction has been obeyed in the past, we trust and believe it is being obeyed in the present, and there is no reason to believe that it will not be willingly and gladly observed in the future.

I

It is one thing to state an ideal and give a commission, it is another to carry them out. Laureus Clark Seelye in 1873 undertook the presidency of the new college, and in 1875 Smith College was opened with fourteen students. His inaugural address laid down the main lines of educational policy on which the new college was to run, and again it is amazing to note how little these have to be modified to describe the College of today. There is the same high standard of admission, matching that of the best colleges for men, the same breadth in the curriculum, the same emphasis on literature, art, and music. What we are less likely to note is the faith needed to establish these standards and to stick to them in an atmosphere of skepticism and ridicule.

For thirty-five years President Seelye carried the College forward. Its assets grew from the original bequest of about \$400,000 to over \$3,000,000; its faculty from half a dozen to 122; its student body from 14 to 1635; its buildings from three to 35. These figures are a testimony to his remarkable financial and administrative ability, yet they are chiefly important as symbols of a greater achievement. With few educational theories—none of them revolutionary—he had set going a process for the molding of minds and spirits of young women, had supervised the process for a generation, and had stamped upon several thousand graduates the mark of his own ideals and his own integrity.

II

It is hard to follow the king, and the problem which faced President Seelye's successor was no easy one. The growth of the College had acquired a strong momentum, and numbers increased of themselves; Marion Le Roy Burton's task was to perfect the organization for taking care of these numbers. This meant the modernizing of the business methods of the administration, the improvement of the ratio of instructors to students, the raising of salaries to retain and improve the staff, the providing of more adequate equipment, and the revision of the curriculum. The seven years of his service saw the further growth of the College to over

HISTORY OF SMITH COLLEGE

1900 students, the increase of its assets by over \$1,000,000, and substantial progress in educational efficiency. The business reorganization was well begun when in 1917 President Burton accepted the presidency of the University of Minnesota.

III

Now one of the largest women's colleges in the world, Smith College faced problems which it shared with both colleges and universities. President William Allan Neilson set about to develop all the advantages which only a large institution can offer, and at the same time to avoid any disadvantages which might be inherent in the size of the institution. While the number of instructors was constantly increased, the number of students was held to approximately two thousand. With the construction of further dormitories, each one of them housing sixty or seventy students in accordance with the original "cottage plan" of the founders, it became possible for all students to live "on campus." An expanded administrative system provided a separate Dean for each college class, a staff of five resident physicians, and a Director of Vocational Guidance and Placement. In addition, the curriculum was revised under President Neilson's guidance in order to provide a pattern now generally familiar in institutions throughout the country: a broad general foundation in various fields of knowledge followed by a more intensive study of a major subject.

There were other innovations. The School for Social Work resulted from a suggestion that the College give training in psychiatric social work and thus serve in the rehabilitation of veterans of World War I. The Smith College Day School and the Elisabeth Morrow Morgan Nursery School gave students in education a field for observation and practice teaching. The Junior Years Abroad, Special Honors programs, and interdepartmental majors in science, landscape architecture, and theatre added variety and incitement to the course of study.

Yet the great contribution of President Neilson's long administration did not lie in any of these achievements or in their sum. In his time Smith College came to be recognized in America and abroad not only as a reputable member of the academic community but as one of the leading colleges of this country, whether for men or women. Its position in the front rank was established. Its size, its vigor, the distinction of its faculty, and the ability of its alumnae were factors in this recognition; but a certain statesmanlike quality in its President had much to do with bringing it to the fore whenever academic problems were under discussion. Wherever Mr. Neilson went, his ability to penetrate to the heart of a question helped to clarify thinking, dissipate prejudice, and foster agreement; and the College rose with him in the estimation of the educational world and of the country.

IV

The fourth administration of Smith College began, like the third, in a time of international conflict, under the cloud of wars and rumors of wars. President Neilson

HISTORY OF SMITH COLLEGE

retired at the end of the academic year 1938-39; during the interregnum Mrs. Elizabeth Cutter Morrow served her college as Acting President and earned its deep gratitude. At the opening of the year 1940-41, President Herbert Davis, formerly Professor of English at the University of Toronto and at Cornell University, took office.

The college went into year-round session in order to allow for acceleration on an optional basis; members of the faculty and staff were called into many fields of government service. The Navy Department invited Smith College to provide facilities for the first Officers' Training Unit of the Women's Reserve, and between August, 1942 and the closing of the school in January, 1945 more than ninety-five hundred women received their commissions.

After the war, the College returned to the regular calendar, and a revised curriculum proposed by a Faculty Committee was adopted. Much-needed building projects were carried out. Among them was a new heating plant and the establishment of a student recreation hall which, at the request of the students, was named Davis Center in honor of their president, shortly before he left in June, 1949 to accept a post at Oxford University.

V

The anniversary year 1949-50 opened under President Benjamin Fletcher Wright, formerly Professor of Government at Harvard University and Chairman of that University's Committee on General Education. The Inauguration of the President and the Convocation in honor of the seventy-fifth year, held jointly on the 19th and 20th of October, were marked in word and spirit by recognition not only of the brilliant record of the past but of a great responsibility toward the future. "Our legacy is not narrow and confining," said Mr Wright. "The founders of this College faced their own times with courage, and they had confidence that later generations would advance their work. We shall be faithful to that trust only if we carry on our heritage in their spirit." At the end of the year this confidence was notably demonstrated in the successful completion of the Seven Million Dollar Fund representing four years of devoted effort on the part of alumnae, students, and friends of the College.

Among the achievements of President Wright's administration were the introduction of interdepartmental courses and the expansion of the honors program. In spite of increasing financial burdens the economic situation of the College was improved, and faculty salaries were increased. After ten years in office, Mr. Wright resigned in order to resume writing and research in the field of constitutional law. Before leaving to take up a faculty fellowship at the Institute of Behavioral Sciences in Palo Alto, he announced the receipt of a large gift to the College to be used for a new faculty office and class room building to be named in his honor.

The sixth administration of the College was assumed in the fall of 1959 by Professor Thomas Corwin Mendenhall, who came to Smith College from the Department of

HISTORY OF SMITH COLLEGE

History at Yale University where his most recent administrative posts had been Master of Berkeley College and Director of the Master of Arts in Teaching program.

The growth of Smith College is evident enough in the contrast between the small beginnings and the present achievement: between the original corner lot of 13 acres and a campus of 206 acres; between Sophia Smith's legacy of \$400,000 and total assets of \$52,734,819, between the first class of 14 and today's enrollment of 2,426; between the 11 graduates of 1879 and an alumnae roster of 31,901. Expansion has meant no change in the ideals set for the College by the founders and carried on by all the great company who have loved it and worked for it. By putting quality first, by coveting the best, by cherishing the values for which the College has always stood, those who serve it now are united in devotion and in commitment with all who have served it in the past. It is this corporate loyalty which has always been, and will continue to be, the abiding strength of Smith College.

THE WILLIAM ALLAN NEILSON CHAIR OF RESEARCH

The William Allan Neilson Professorship, commemorating his profound concern for scholarship and research, has been held by the following distinguished scholars:

- KURT KOFFKA, PH.D. *Psychology*. 1927-32.
G. ANTONIO BORGESE, PH.D. *Comparative Literature*. 1932-35.
SIR HERBERT J. C. GRIERSON, M.A., LL.D., LITT.D. *English*. Second semester, 1937-38.
ALFRED EINSTEIN, DR. PHIL. *Music*. First semester, 1939-40; 1949-50.
GEORGE EDWARD MOORE, D.LIT., LL.D. *Philosophy*. First semester, 1940-41.
KARL KELCHNER DARROW, PH.D. *Physics*. Second semester, 1940-41.
CARL LOTUS BECKER, PH.D., LITT.D. *History*. Second semester, 1941-42.
ALBERT F. BLAKESLEE, PH.D., SC.D. (HON.) *Botany*. 1942-43.
EDGAR WIND, PH.D. *Art*. 1944-48.
DAVID NICHOL SMITH, M.A., D.LITT. (HON.), LL.D. *English*. First semester, 1946-47.
DAVID MITRANY, PH.D., D.SC. *International Relations*. Second semester, 1950-51.
PIETER GEYL, LIT.D. *History*. Second semester, 1951-52.
WYSTAN HUGH AUDEN, B.A. *English*. Second semester, 1952-53.
ALFRED KAZIN, M.A. *English*. 1954-55.
HARLOW SHAPLEY, PH.D., LL.D., SC.D., LITT.D., DR. (HON.) *Astronomy*. First semester, 1956-57.
PHILIP ELLIS WHEELWRIGHT, PH.D. *Philosophy*. Second semester, 1957-58.
KARL LEHMANN, PH.D. *Art*. Second semester, 1958-59.
ALVIN HARVEY HANSEN, PH.D., LL.D. *Economics*. Second semester, 1959-60.
PHILIPPE EMMANUEL LE CORBEILLER, DR.-ÈS-SC. A.M. (HON.). *Physics*. First semester, 1960-61.

Admission of Undergraduates

APPLICATION FOR ADMISSION

An applicant for admission registers by submitting an application card which the Board of Admission furnishes upon request and by paying a registration fee of \$15 which is not refunded. If possible, such registration should be made well in advance of entrance to enable the applicant to receive the benefit of advice in making her entrance plans. Although the date of application is not considered in the selection of candidates, rooms in college houses are assigned to freshmen in order of their dates of application for admission. Applications must be received not later than January 15 in the year of entrance.

SELECTION OF CANDIDATES

The Board of Admission meets in March each year to evaluate the records of the applicants to the Freshman Class. Its purpose is to select students who give evidence of possessing the particular qualities of mind and purpose which an education in the liberal arts requires and whose personal qualifications give assurance that they will be responsible and contributing members of the community. Both past achievement and capacity for intellectual development are given weight in this evaluation. The Board's estimate of the student's ability, motivation, and maturity is based upon her secondary school record, rank in class, recommendations of the principal and a teacher, results of the College Board examinations, and other available information. An interview is not required but is often helpful both to the candidate and to the Board. The Director of Admission welcomes correspondence with interested candidates, their parents, and school advisers.

EARLY DECISION ON ADMISSION

Candidates who are clearly well-qualified in every respect and have made application *only* to Smith College may submit their applications for consideration at the November meetings of the Board of Admission. Students should not apply under this plan unless they have the approval of their school principal or counselor. These applications must be made by October 1 of the senior year, and candidates will be notified of the Board's decision early in December. Decisions are based upon the same general criteria as at the spring meetings, except that the record is a three-year one. The Scholastic Aptitude Test should be taken in March of the junior year and the three Achievement Tests in May.

Candidates interested in this admission procedure should write to the Board of Admission for the pamphlet, *Plan for Early Decision on Admission*.

ADMISSION OF UNDERGRADUATES

SECONDARY SCHOOL PREPARATION

In planning her preparation for entrance, a candidate should bear in mind the different ways in which her choice of courses in high school will strengthen her preparation for entrance.

The preparatory program recommended below is intended to assure for the student a satisfactory basis for the work which she will be asked to do on a college level. The discipline and the knowledge acquired from the study of English, languages, mathematics, science, and history have a general bearing upon all college studies.

As foundation for college work, the student should have completed a four-year secondary school program giving her a minimum of sixteen credits and corresponding to one of the curricula presented below. The elective work may be in language, mathematics, science, history, art, Bible, or music. For special information concerning entrance credits for art, Bible, and music, apply to the Board of Admission.

<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>	<i>Subject</i>	<i>Credits</i>
English	4	English	4	English	4
Language	3*	Language	5**	Language	5**
Mathematics	} 4†	Mathematics	2§	Mathematics	} 4†
Science		Science(laboratory)	1	Science	
History	2‡	History	2‡	History	1
Elective	3	Elective	2	Elective	2
<hr/>		<hr/>		<hr/>	
Total	16		16		16

*Or two years in each of two different languages, making a total of four. No credit will be given for one year of a language.

**One of the languages should be Latin or Greek.

†Three in mathematics and one in a laboratory science.

‡In different fields.

§Algebra and plane geometry (may be an integrated course).

The College is aware of the fact that there is variation among school curricula throughout the country. It is willing to give careful consideration to able students whose programs deviate at some points from those suggested above.

ENTRANCE TESTS

Smith College requires the Scholastic Aptitude Test and a total of three Achievement Tests, English and two others, chosen from these fields: language, mathematics or science, social studies. The Aptitude Test should be taken in December or January of the senior year; December is preferred. The Achievement Tests may be

ADMISSION OF UNDERGRADUATES

divided between the junior and senior years, although senior scores are preferable. Junior year Achievement Tests should be taken in May; senior Achievement Tests should be taken in January, but December results are acceptable.

Every student should be able to offer, from junior and senior year examinations, a total of at least three Achievement Test results without any alteration of program as it is normally planned in the school. Although no more than three Achievement Test results in different areas are required, it would seem advantageous for the applicant, in addition to offering the maximum number possible in the senior year, to take English and two other tests in the junior year for advisory purposes. These results would then be available if the student should wish to be considered under our Early Decision on Admission Plan.

COLLEGE BOARD EXAMINATIONS

All candidates should make application to take the examinations by writing to the *College Entrance Examination Board, Box 592, Princeton, New Jersey* or the *College Entrance Examination Board, Box 27896, Los Angeles 27, California*. Applications and fees should reach the appropriate office at least one month before the date the tests are to be taken.

Smith College participates in the Advanced Placement Program which is administered by the College Entrance Examination Board. College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from some of the special and distribution requirements of our curriculum.

FOREIGN STUDENTS

Smith College is interested in admitting qualified foreign students. Applicants are advised to communicate with the Director of Admission well in advance of entrance in order that the College may advise them concerning entrance plans. They should include in their initial letter detailed information about their total academic background.

ADVANCED STANDING STUDENTS

The College admits each year a small number of sophomores and juniors by transfer from other colleges. Candidates for admission with advanced standing are judged

ADMISSION OF UNDERGRADUATES

on the following criteria: school and college records and recommendations, and results achieved on the Scholastic Aptitude Test. Their college programs should correlate with the general college requirements given on p. 40 of this *Catalogue*. When making application for admission with advanced standing, students should include a detailed statement of their previous educational experience and their reasons for wishing to transfer. To be eligible to make application, a student is expected to be doing work of honor grade at the institution she is attending. Application must be made by February 1 of the year of entrance.

Successful candidates are given credit without examination for acceptable work taken at another college. Shortages incurred when previous work is not accepted for the Smith College degree may be removed by carrying hours above the minimum or taking work in an approved summer school. During their first semester in residence, advanced standing students may not elect more than seventeen hours except by permission of the Administrative Board. At least two years' residence at Smith College is ordinarily required of a candidate for the degree of Bachelor of Arts.

READMISSION

A student who has withdrawn from college may apply to the Administrative Board for readmission. Application for readmission in September should be sent to the Registrar before April 1; for readmission in February before December 1.

In general, students who have withdrawn from college at the end of the first semester will be permitted to return only in the following February.

NONCOLLEGIATE STUDENTS

Qualified persons beyond the age of the undergraduate may be admitted to courses of study or to supervised research work with the approval of the Registrar and the instructor concerned. Auditors should obtain the permission of the Registrar and of the instructor concerned. (See p. 166 for fees.)

The Curriculum

As candidates for the degree of Bachelor of Arts, undergraduate students normally follow a four-year program in which they are required to complete one hundred and twenty hours of academic work as well as prescribed courses in physical education.* For graduation they must achieve a cumulative average of C (fair) in their academic work and a C average in the senior year; in computing these averages plus and minus signs are not taken into account. The minimum schedule for a semester consists of fifteen credit hours.

When plans can be approved before the end of the freshman year, it is possible in special cases for students to complete the work in three years by attending summer sessions elsewhere. Only in rare instances is the degree granted after a residence at Smith College of less than two years, one of which must be the senior year.

ORGANIZATION OF THE CURRICULUM

DIVISION I. THE HUMANITIES

GROUP A. *Literature*: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature

GROUP B. *Fine Arts*: Art, Music, Theatre and Speech

GROUP C. *Philosophy, Religion*

DIVISION II. SOCIAL SCIENCES AND HISTORY

GROUP D. *History*

GROUP E. *Social Sciences*: Economics, Education, Government, Sociology, Social Science

DIVISION III. NATURAL SCIENCES AND MATHEMATICS

GROUP F. *Physical Sciences and Mathematics*: Astronomy, Chemistry, Geology, Physics, Physical Science, Mathematics

GROUP G. *Biological Sciences*: Bacteriology, Botany, Psychology, Zoology, Biological Science

*For this requirement in Physical Education see page 122.

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GENERAL COLLEGE REQUIREMENTS

The program of the first two years of the college course is generally diversified, while the last two years are devoted primarily to study in a major field which is chosen at the end of the sophomore year.

Because the College considers experience in certain fields of knowledge essential to a liberal education, it has set a number of special and distribution requirements to be completed before graduation.

College credit will be given for scores of 4 or 5 on Advanced Placement examinations. Students receiving such credit may be exempted from some of the special and distribution requirements. Students with lower scores may be admitted to advanced courses. Decisions on all matters concerning exemption and placement will be made at the time of registration by appointed representatives of the appropriate departments.

SPECIAL REQUIREMENTS

- (1) Six semester hours in Freshman English, required in the first year.
A few students with exceptionally high entrance records in English will be exempted from the requirement.
Freshmen who do not pass English 11 with a satisfactory grade must work tutorially in sophomore year with the Committee on Special Assistance in Written English.
- (2) Six semester hours in a foreign language. The minimum prerequisite for courses which fulfill the requirement is three entrance units in a language or six hours in college. Courses which fulfill the requirement are marked (L) and are offered in the following departments: Classics, French, German, Italian, Russian, Spanish.
NOTE—Students who enter with two units in a modern language and who wish to fulfill the requirement in that language must plan to take two courses as prerequisite.
- (3) Students entering without units in Latin or Greek are required to take either Latin 11 or Greek 11, or six hours of classical literature in translation.

DISTRIBUTION REQUIREMENTS

- (1) Six semester hours in literature (Group A: Classics, English, French, German, Italian, Russian, Spanish, Biblical Literature, General Literature). This course must be taken in a language other than the one used to fulfill the foreign language requirement.
- (2) Six semester hours in Art, Music, Theatre and Speech (Group B) or Philosophy, Religion (Group C). Students are urged to take six semester hours in each group if possible.

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- (3) Six semester hours in History (Group D).

Exemption from this requirement will be granted to students who offer at least three units of the proper content: ancient, American, European (medieval and modern, or modern since 1600), and who pass an examination in one of these fields, administered by the Department after the opening of college. This examination must be taken at the beginning of freshman year.

- (4) Six semester hours in Government, Economics, Sociology, or Social Science (Group E).

In rare cases students with preparation in these fields may be granted exemption on the basis of an examination. Applications should be made to the Class Dean.

- (5) Six semester hours in Astronomy, Chemistry, Geology, Physics, Physical Science (Group F) or Botany, Zoology, Biological Science (Group G). Students are urged to take six semester hours in each group if possible.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill this requirement through certain prescribed courses in mathematics or psychology.

The courses which may be taken to fulfill these distribution requirements are named at the head of each department offering and specified in the list of Interdepartmental Courses on page 50.

THE MAJOR

In the junior and senior years the student devotes half or more of her time to study in a single field selected on the basis of a course or courses taken in the first two years. Major programs, which are offered in all departments except Physical Education, are described under the department offerings (see pp. 52 ff.). When a student enters upon her major she comes under the direction of a major adviser and obtains the approval of that adviser for her major program.

Of the thirty semester hours required in the major at least eighteen must be in courses of Grade III or higher in the field of concentration and of these twelve must be in the department. Students are required to take not less than twelve hours in the major field in each of junior and senior years. Courses taken in sophomore year, exclusive of the basic course, may be counted in the major.

At least six semester hours in the junior or the senior year must be taken in a division other than the one in which the student is majoring.

In the junior and senior years not more than twelve semester hours of Grade I, and not less than twenty-four semester hours above Grade II, may be taken for credit toward graduation.

The curriculum includes interdepartmental majors in American Studies, Bacteriology, Biochemistry, Premedical Science (see pp. 156 ff.).

THE CURRICULUM

INTERIM SESSION

The January interim session, during which no formal class meetings are held, is designed to afford all students an opportunity for independent study and discussion, to permit Juniors and Seniors to investigate special topics in the field of the major, and to assist Freshmen and Sophomores in determining the field of their major interest. To serve the latter purpose, two lecture-discussion series, involving the various disciplines and their relationships, are organized primarily for underclassmen but are open to the whole student body. The subjects of the two lecture series for the 1962 interim session are *China—An Area Study*, and *Radioactivity*.

THE JUNIOR YEAR ABROAD

Students in good standing and with sufficient language training may, if conditions permit, spend the junior year in certain foreign countries in groups directed by members of the Smith College Faculty. The Junior Years in Paris, Italy, Spain, and Germany are intended primarily for language majors, and the Junior Year in Geneva primarily for students majoring in economics, government, history, or sociology. Majors in other fields with adequate preparation in language may apply to the appropriate committees with the consent of the department of the major. Properly prepared students from other colleges may be admitted to the groups.

The Junior Years Abroad are planned to afford as rich an opportunity as possible to observe and study the countries visited. Art, music, and theatre are available, and the Directors arrange occasional meetings with outstanding scholars, writers, and leaders. During the vacations students are free to broaden their acquaintance with the country, although they may stay in residence if they prefer.

Applications, including permissions from parents, must be made by February 15 at the Office of the Registrar. The selection of members for each group is determined by a special faculty committee. Candidates must meet the health requirements set by the College Physician.

The Directors of the groups are granted by the College full control in matters of behavior and discipline, although the details of group procedure are worked out with student committees. These social regulations are comparable to those which obtain at Smith College but in each case are adapted to the customs of the country. The supervision of the Director ends with the close of the college year.

The fee covering tuition, room, and board is \$2500; travel and incidental expenses vary according to individual tastes and plans. A deposit of \$50 is payable on May 1 by students who have been provisionally accepted. It is credited on the second semester bill and is not refunded unless written notice of withdrawal from the group is received before June 1. Payment for the first semester should be made by July 10; for the second semester, by December 10. Checks should be sent to the Treasurer of Smith College, Northampton.

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Neither the College nor the Director accepts any responsibility for personal injury to members of a group or for damage to or loss of property. Students are required to carry health and accident insurance which is available through a general college plan.

PARIS: Arrangements are made for students to live in Paris with carefully selected families. Full-time junior programs consisting of work in French literature, history, art, and other aspects of French culture are planned by the Director. Courses are given by professors from the Sorbonne and other institutions. The language requirement for admission to the group is usually two years of college French beyond three entrance units.

ITALY: The work of the year begins with a month in Siena where study of the language and of art and literature is undertaken with special instructors. After the first of October this study is continued in Florence. About the middle of November the group starts work in classes conducted especially for Smith College by professors of the University of Florence. The subjects offered are Italian art, history, language, and literature. In Siena the students stay in a country villa; in Florence they live in private homes chosen by the Director. The minimum requirement for admission is normally two years of college Italian. By special action of the committee, promising students with only one year of Italian may be accepted.

SPAIN: After a preliminary month of intensive training in language spent in one of the provincial cities, the juniors go to Madrid for the year's course of study. There they live with carefully selected families. A program consisting of courses in Spanish literature, philosophy, history, and art is planned by the Director and given by professors from the University of Madrid and other institutions. A minimum of two years of college Spanish is the normal requirement for admission.

GENEVA: The work in Geneva emphasizes international studies rather than the history and culture of a single country, and accordingly the group is composed primarily of majors in history, government, economics, and sociology. The program consists of courses in diplomatic and contemporary history, international economics and finance, international law, and similar subjects given at the University of Geneva and the Graduate Institute of International Studies. As the classes are conducted in French, students are encouraged to offer two years of college French beyond three entrance units; a minimum of one year of college French is required. It is strongly urged that work in at least two fields of the social sciences be offered.

GERMANY: The work of the Junior Year at Hamburg consists largely of courses taken at the University supplemented, wherever necessary and desirable, by work with German tutors or by specially arranged courses. Courses in German literature, philosophy, art, music, history, and some sciences are available. A preliminary five-week period of intensive language training is spent in another German city. A minimum of two years of college German is the normal requirement for admission.

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EXCHANGE PROGRAM WITH TORONTO

Since 1945 an exchange of students in the junior class with juniors at the University of Toronto has proved to be highly successful. For the year the Smith juniors live in the colleges of the University and carry on programs approved by their major advisers. Candidates from Smith must have demonstrated their ability to do work of Dean's List rating and have the approval of the chairman of their major department. Not more than eight exchanges will be arranged in any year.

FOUR COLLEGE COOPERATION

Amherst, Mount Holyoke, and Smith Colleges and the University of Massachusetts have for some time combined their academic activities in certain selected areas for the purpose of extending and enriching their collective educational resources and have worked out procedures for the proper utilization of these resources by each member of the group. As a result, any student in any one of the four institutions may take any course for credit in any of the other three if he or she has the necessary qualifications for the work of the course and if the request is approved by the student's own Dean. Catalogues of the courses offered in the other institutions are at the loan desk in each library and in the offices of all chairmen of departments. Application blanks are in the office of the Dean and that office will help with the arrangements for transportation. Requests are usually for advanced courses in the student's major subject and are normally granted only to students in good standing.

The oldest and probably the most important of our cooperative ventures is the Hampshire Inter-Library Center (HILC), a separate legal entity controlled by a Board of Directors made up of the four Presidents, the four Librarians, and representatives from each of the Faculties. HILC is a depository for research materials and learned periodicals of a kind and in a quantity well beyond the reach of any one of the four libraries operating independently: it is now located in the new wing of the Goodell Library on the campus of the University of Massachusetts. The FM Radio Station (Western Massachusetts Broadcasting Council, Inc., WFCR 88.5) is likewise a legal entity, controlled by a Board of Directors made up of representatives of all four institutions.

A cooperative PH.D. program has been established. The degree is awarded by the University of Massachusetts but the work leading to the degree may be done in the various institutions. Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts.

Among other cooperative activities, all designed to give added strength in one way or another to each individual institution, are the following: a joint Astronomy department; new courses in the History of Science; new courses in Non-Western Studies, financed for three years by the Ford Foundation; a Film Center; a common

THE CURRICULUM

Calendar of lectures and concerts on all four campuses, printed in advance for each semester; a committee on transportation, with an executive chairman; and a Coordinator who is a member of the administration in all four institutions. Additional cooperative projects are in the planning stage.

THE DEGREE WITH HONORS

PURPOSE: The Honors Program is strongly recommended for all juniors and seniors who have achieved or approximated a Dean's List average. This program allows for flexibility in the planning and execution of the work of the major and at the same time gives recognition to students who do work of good quality in the preparation of a long paper, as well as in their courses and units or seminars.

AWARD. The degree with honors is voted by the faculty on the recommendation of the Honors Committee, to whom Departments recommend honors in three grades: *summa cum laude*, *magna cum laude*, *cum laude*. Awards are based on consideration of (a) an independent piece of work which usually involves writing a long paper, (b) three final examinations, (c) an estimate of work in courses and units. Evaluation by Departments and by the Committee takes into account all portions of the student's record that are deemed relevant.

A student who fails to be awarded honors will be granted a degree without honors if her work is of sufficient merit.

ADMISSION: A student having an average of B for the three semesters preceding her application is eligible for honors. Other students may be admitted on the recommendation of the department of the major and with the approval of the Committee on Honors.

Subject to special requirements of individual departments students may enroll at the beginning of either semester of junior year or at the beginning of senior year. They may withdraw only upon recommendation of the department of the major and with the approval of the Committee.

UNITS: Honors units will normally be limited to ten students; exceptions up to the number of twelve may be permitted on the recommendation of the director of honors with the approval of the instructor. Priority among honors students for admission to units will be determined by need and qualifications.

PRIVILEGES: An honors candidate will have the greatest possible elasticity in the arrangement of her program (with the permission of the director she may carry less than fifteen hours) and will be exempt from all course examinations at the end of the senior year. Honors students will be given preference over other undergraduates when admission to units must be limited, and may be given such preference when admission to seminars must be limited.

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THE DEGREE WITH DISTINCTION

The Degree with Distinction is awarded to students who maintain a minimum average of 3.4 for the senior year and who have achieved a cumulative average of 3.5 or better in the sophomore, junior, and senior years.

ACADEMIC RECORD

Grades are given with the following significations: A, excellent; B, good; C, fair; D, poor; E, failure.

The Dean's List consists of students who have achieved an average of B (3.0) or better in the work of the preceding year. It is computed by counting each semester hour of A as 4 points, each semester hour of B as 3, each semester hour of C as 2, each semester hour of D as 1, each semester hour of E as 0. Plus and minus signs are not counted.

Students whose academic average for the preceding semester or cumulative average for the preceding college course is less than C (2.0) will be placed on academic probation. If no improvement is shown by the end of the semester, the student's record will be reviewed by the Administrative Board and she may be subject to exclusion from college.

For graduation a student is required to have a cumulative C average (2.0) as well as a C average for the senior year.

A student may not enter the senior year with a shortage of hours.

A shortage of hours incurred through failure in a course must be made up before graduation by an equivalent amount of work at the same or higher level carried above the minimum or completed in an approved summer school.

A student who fails to maintain diploma grade or whose college work is generally unsatisfactory is subject to exclusion from college.

A student who has failed in the work of five or more hours in two consecutive semesters or in any three semesters, or has failed in the work of ten or more semester hours in a year is excluded from college unless special exception is made by vote of the Administrative Board.

PHI BETA KAPPA

The Zeta of Massachusetts Chapter of the Phi Beta Kappa Society was established at Smith College during the year 1904-05, and the first undergraduates were elected to membership in April. In 1920 provision was made for the election of a small number of juniors. Rules of eligibility are established by the Chapter in accordance with the regulations of the national Society.

SOCIETY OF THE SIGMA XI

Smith College was the first woman's college to be granted a charter for the establishment of a chapter of the Society. Each year the Chapter elects to membership promising graduate students and seniors who excel in science.

RULES GOVERNING ELECTION OF COURSES

1. Each student is expected to make herself familiar with all regulations governing the curriculum.
2. Certain conditions require the presentation of permission slips or of petitions to the Administrative Board. (A petition to the Board requires the recommendation of the chairman of the department and of the instructor concerned.) Petition slips may be obtained from the Office of the Class Deans.
 - (a) Students who wish to enter a course for which they have not had the stated prerequisite must file a petition with the Administrative Board.
 - (b) Freshmen and sophomores who wish to enter a course of a higher grade than is normally open to their class must file a petition with the Administrative Board. Exceptions in the languages and sciences are made for those students who have the stated requirements.
 - (c) Juniors not taking honors work who wish to enter a course of Grade IV (including seminars) must have the permission of the department concerned and file a petition with the Board.
 - (d) Seminars of Grade IV, limited to twelve students, are open to juniors and seniors only by permission of the instructor. Students not candidates for honors are permitted to take only one seminar in a semester.
 - (e) Special Studies of Grade IV are open only by permission of the department. They are limited to seniors who have had twelve semester hours above Grade I and are majoring in the department concerned.
 - (f) Grade V courses are open to seniors only if they have a major or its equivalent in the department and if they have at least a B average in that major. Under these conditions they may be admitted by permission. They may not carry more than three hours of Grade V work a semester except in technical art and practical music unless they have special permission from the Administrative Board.
 - (g) A student may not carry in any semester less than the required minimum of fifteen hours or more than two hours above the required minimum except with the permission of the Administrative Board.

A shortage of hours permitted by the Administrative Board may be made up by a corresponding excess of hours distributed over succeeding semesters.
 - (h) A year course may not be entered in the middle of the year except with the permission of the Administrative Board and the consent of the department concerned. When a year course is dropped, credit for the first semester

THE CURRICULUM

is not allowed except with the recommendation of the instructor and the chairman of the department and the permission of the Administrative Board.

3. Changes in courses may be made without fee until August 25. Later changes may be made only during the first two weeks of college, at a charge of five dollars, unless the change has been initiated by an instructor or is the result of curriculum changes beyond the student's control. Exception is made for freshmen, advanced standing students, and seniors returning from abroad who may change courses without fee through the first ten days of the first semester.
 - (a) Requests for these changes should be filed in the Office of the Class Deans.
 - (b) If changes on the course cards are made necessary by reason of carelessness on the part of the student a fee of two dollars is charged.
 - (c) Permission to drop hours of work carried above the minimum will not be granted after November 1 for the first semester and after April 3 for the second semester.
4. A student is not allowed to attend a class either as an occasional or a regular auditor except with the permission of the instructor in charge of the course.

Smith College

COURSES OF STUDY

1961-1962

Key to Symbols and Abbreviations

Courses are arranged in five grades indicated by the first digit in the course number. Those of Grade I are primarily for freshmen, those of Grade II for sophomores. Courses of Grade III are for juniors and seniors but are also open to sophomores when a statement to that effect is included in the description. Grade IV courses are for seniors, honors students, or qualified juniors. Grade V courses are for graduate students or qualified seniors.

An "a" after the number of a course indicates that it is given in the first semester; a "b," that it is given in the second semester.

Where no letter follows the number of the course, the course runs through the year.

Unless otherwise indicated, all year courses carry credit of six hours; all semester courses, three hours.

The numerals after the letters indicating days of the week show the scheduled hours of classes. Where scheduled hours are not given for courses or for laboratory work, the times of meeting are arranged after elections are made.

[] Courses in brackets will be omitted for the year.

Dem. indicates demonstration; lab., laboratory; lec., lecture; rec., recitation; sect., section; dis., discussion.

An "L" in parentheses at the close of the description of a course in the literature departments indicates that it may be taken to fulfill the foreign literature requirement.

Explanation of marks before instructors' names: †absent for the year; *absent for the first semester; **absent for the second semester; §Director of a Junior Year Abroad; ¹appointed for the first semester; ²appointed for the second semester.

INTERDEPARTMENTAL COURSES

SOCIAL SCIENCE 192. *Modern American Society*. Problems in and interpretations of American society, including such topics as: industrialism, class structure, race relations, "national character," the competitive market and its fluctuations, and the sources of party and governmental conflict, stability, and change. Materials and methods of economics, sociology, and political science are employed. Open to a limited number of freshmen and sophomores. Lec. M 11; dis. T W 11, 2. Mr Kenneth Olson (*Director*), Mr Brotz, Miss Halvorsen. (Group E)

PHYSICAL SCIENCE 193. *The World of Atoms*. A course in physical principles with the two-fold purpose of conveying the contemporary picture of nuclear, atomic, and molecular structure and developing an understanding of the methods of physical science. Chemical and physical ideas are discussed in relation to each other and developed quantitatively. The historical growth of scientific concepts is traced from the Greeks to the present. Lec. Th F S 9, dis. W 10, 12. Mr Josephs (*Director*), Mr Sherk. (Division III)

BIOLOGICAL SCIENCE 195. *The Living World*. Life as exhibited in the form, function, inheritance, and evolution of living organisms with special emphasis on the relationship of man to the equilibrium of nature. This course is not open to students who have presented a unit in biology for entrance. Lecture, three hours; laboratory, two hours. Lec. M T W 9; lab. Th 11-1, 2-4; F 9-11, 11-1. Mr Driver (*Director*), Mrs Driver. (Division III)

GENERAL LITERATURE 291. *A Study of Selected Literary Masterpieces from Homer to Tolstoy*. For sophomores and juniors, or by permission. Lec. W 2. Section meetings M T W 10, 11, 12, 2, 3; W Th F 2, 3; Th F S 9, 10, 11. Mr Guilloton (*Director*), Miss Muchnic, Mr Fisher, Mr Collignon, Mr Petersson, Mr Connelly, Mr Young, Mr Monas, Mr Schendler, Mrs Bramwell, Mr Dabney. (Group A)

HISTORY AND SOCIAL SCIENCE 293. *American Ideas and Institutions*. A study of American life and thought through the intensive analysis of four representative generations from the eighteenth to the twentieth century. The adaptation of American values to changing economic, political, and social conditions. Th F S 10. Miss Kenyon, Mr Mann, Mr Ruiz.

HISTORY AND SOCIAL SCIENCE 294b. *Contemporary India and Its Role in Asia*. This course will focus on the political, economic, and social developments in India since 1947.

HISTORY AND SOCIAL SCIENCE 295a. *Africa South of the Sahara*. An introductory study of recent political, economic, and social developments. M T W 9. Miss Carter.

INTERDEPARTMENTAL COURSES

HISTORY OF SCIENCE 298a. *Modern Scientific Thought*. An introductory study of some fundamental concepts and methods in the mathematical, physical and biological sciences. Crucial stages in the rise of modern science. The experimental method; matter and energy; scientific cosmology. Prerequisite, completion of the distribution requirement in Division III. M T W 10. Mr Yourgrau.

HISTORY OF SCIENCE 298b. *History of Scientific Thought from Antiquity to Galileo*. The development of fundamental concepts and methods in the mathematical, physical and biological sciences. The Greeks; Scholasticism; the forerunners of modern science. M T W 10. Mr Yourgrau.

[SCIENCE AND RELIGION 391b. *Problems in the Relation of Science and Religion*. An examination of this relation by means of an operational survey of natural science in the areas of epistemology, theory of ethics, and metaphysics. Prerequisite, completion of the science requirement and 6 hours in Groups C, F, or G. M T W 10. Mr Scott.]

[HUMANITIES, HISTORY, AND SOCIAL SCIENCE 493. *Soviet Russia*. A study of political, economic, social, and cultural life in the Soviet Union. Open to juniors by permission of the director. Mr Monas.]

HISTORY OF SCIENCE 498a (*seminar*). An intensive study of two or three concepts in modern science, the selection of topics to be determined by the interests and background of the individual students. Open only to qualified juniors and seniors who are majoring in mathematics or science or who have unusual background in at least one scientific field. Mr Yourgrau.

HISTORY OF SCIENCE 498b (*seminar*). Some decisive phases in Greek science which have had strong impact upon the development of scientific discovery and method. Open only to qualified juniors and seniors who are majoring in mathematics or science or who have some background in at least one scientific field. Mr Yourgrau.

COURSES OFFERED UNDER INTERCOLLEGIATE AUSPICES

ARABIC 101. *Modern Literary Arabic*. Grammatical construction, pronunciation, selected readings. M, Mount Holyoke College, W, Smith College, 2:30-4, and an hour to be arranged. Mr Haddad.

ART 212a. *Art of India*. A survey of the art of India in relation to Indian religious thought and life. To be given at Mount Holyoke College. T 2-4. Mrs Ellen Conant.

SOCIAL SCIENCE 492a. *French Africa South of the Sahara*. Open by permission to students with a background of study on Africa or specially endorsed by the Department of History or one of the Social Science departments. Reading knowledge of French useful. T 3-5:30. Mrs Adloff.

ART

PROFESSORS:	OLIVER WATERMAN LARKIN, A.M. HENRY-RUSSELL HITCHCOCK, A.M., <i>Chairman</i> **PHYLLIS WILLIAMS LEHMANN, PH.D. PRISCILLA PAINE VAN DER POEL, A.M.
LECTURERS:	RUTH WEDGWOOD KENNEDY, A.B. ²CORNELIUS VERMEULE, PH.D.
ASSOCIATE PROFESSORS:	MERVIN JULES GEORGE COHEN CHARLES WHITMAN MACSHERRY, PH.D. LEONARD BASKIN, B.A. JAMES HOLDERBAUM, PH.D.
ASSISTANT PROFESSORS:	J. RICHARD JUDSON, PH.D. †ROBERT MARK HARRIS, PH.D. DAVID CAREW HUNTINGTON, PH.D.
INSTRUCTORS:	PETER GARLAND, B. ARCH. ELLIOT MELVILLE OFFNER, M.F.A. KATHERINE H. MEAD, M.A. SHEILA EDMUNDS, PH.D. MARGARET DAMM, M.A.

The courses in art which may be taken to fulfill the distribution requirement in Group B are 11, 13, or 6 hours in courses above Grade I that have no prerequisite.

Students planning to major or to do honors work in art will find that courses in literature, philosophy, religion, and history taken in the first two years will prove valuable. Botany 11 and 27 are recommended to students who have a special interest in landscape architecture.

A. Historical Courses

Each of the historical courses may include one or more trips to Boston, New York, or the vicinity for the study of original works of art.

A reading knowledge of foreign languages, especially German, Italian, and French, is urgently recommended.

- 11 *Introduction to the History of Art.* Important works of art, from ancient Egypt to the present (including painting, sculpture, and architecture), are studied historically and analytically. Illustrated lectures are given by members of the department, followed by discussions in small groups. W Th F 3; dis. M 10, 11; W 9, 10, 12; Th 9, 12, 2, 4; F 11, 12, 4; S 10, 11. Members of the Department. Mr Huntington (*Director*).

- 111b *Sculptors since the Renaissance.* Occidental art of the last five centuries, a survey illustrating main trends through the intensive study of leading sculptors and movements in sculpture: Bernini, Puget, eighteenth-century sculpture, Canova, Romantic sculpture, Rodin, Brancusi, Constructivism. Restricted to 15 students selected from those taking 11. Th 7:30-10. Mr Holderbaum.
- 31a *The Art of Greece.* Architecture, sculpture, painting, and the minor arts from the prehistoric background to the late Hellenistic age. Given in alternate years. Open to sophomores. M T W 11. Mrs Lehmann.
- 31b *The Art of Rome.* Architecture, sculpture, painting, and the minor arts from the late Hellenistic and Etruscan backgrounds to the late antique antecedents of Christian art. Given in alternate years. Open to sophomores. Prerequisite, 11. M 11-1, T 11-12. Mr Vermeule.
- [32 *Cities, Sanctuaries, and Royal Residences.* The arts in the ancient world considered in terms of the revelations of the major Greek and Roman excavation sites from Minoan Knossos to Imperial Trier. Alternates with 31a and b. Open to sophomores. M T W 11. Mrs Lehmann.]
- [33a *Early Medieval Art.* Architecture, sculpture, illuminated manuscripts, and painting from Constantine to the eleventh century with emphasis on the early Christian, post-Justinianic, Carolingian, and Middle Byzantine periods. Open to sophomores. Prerequisite, 11. Th F S 11. Mr Harris.]
- 33b *Romanesque and Gothic Art.* Architecture, sculpture, illuminated manuscripts, and painting from the eleventh to the fifteenth centuries with emphasis on France, Germany, and England. Open to sophomores. Prerequisite, 11, 33a, or History 11. Th F S 11. Miss Edmunds.
- [34a *Northern Art.* Dutch, Flemish, French, and German art from the fourteenth through the sixteenth century. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 10. Mr Judson.]
- 35 *Italian Art during the later Middle Ages and the Renaissance.* The history of Italian painting, sculpture, and architecture from the later thirteenth through the sixteenth centuries. Th F S 10. Mr Holderbaum.
- 37b *Titian and the Renaissance in Venice.* Open to sophomores. Th 2-3:30, F 2-3. Mrs Kennedy.
- 38a *Dutch and Flemish Art of the Seventeenth Century.* With emphasis upon painting and drawing. Given in alternate years. Open to sophomores. Recommended background, 11. Th F S 9. Mr Judson.

ART

- 39b *Seventeenth-Century Architecture.* The Baroque in Italy from its initiation around 1600; cross-currents of style in France and England. Open to sophomores. Recommended background, 11 or 35. M T W 3. Mr Hitchcock.
- [311a *The Art of the Seventeenth Century in Italy, France, and Spain.* Emphasis is on the origin and evolution of pictorial traditions. Lectures and field trips. Open to sophomores. Recommended background, 11 or 35. W Th F 2.]
- [311b *Art of the Eighteenth Century.* European painting, sculpture, and architecture from the Baroque to the Romantic. Given in alternate years. Open to sophomores. Recommended background, 11. M T W 9. Mr Huntington.]
- 313a *The Arts in America.* The colonial period through the years of the expanding republic, with emphasis on painting. Prerequisite, 11 or a course in American history or literature. Th F S 12. Mr Larkin.
- 313b *The Arts in America.* The Civil War to the present, with emphasis on painting. Prerequisite, 11 or a course in American history or literature. Th F S 12. Mr Larkin.
- 314a *Art in Britain: 1720-1870.* Painting, architecture, landscape architecture, and sculpture from the emergence of a British School in the early eighteenth century through the mid-Victorian period. Given in alternate years. Open to sophomores. Recommended background, 11. M T W 9. Mr Huntington.
- 315 *Modern Art.* Contemporary art and its backgrounds from Jacques Louis David and the French Revolution to the present. Open to sophomores by permission of the instructor. Open also for a single semester to students who have had a course abroad in nineteenth- or twentieth-century art. Recommended background, 11. M T W 10. Mrs Van der Poel.
- 316a *Oriental Art.* The art of China and peripheral regions as expressed in painting, sculpture, architecture, porcelain and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Open to sophomores. M T 4-5:30. Mr MacSherry.
- 316b *Oriental Art.* The art of Japan, especially the painting, sculpture, architecture, and color prints. Particular attention is given to the roles of native tradition and foreign influences in the development of Japanese art. Open to sophomores. M T 4-5:30. Mr MacSherry.
- 322a *Decorative Styles.* A survey of European and American thought and taste as expressed in interior design, furniture, and textiles from the mediaeval period to the present. Open to sophomores. M T W 12. Mrs Van der Poel.

- 327 *Modern Architecture and Its Immediate Background.* Architecture of the last hundred years with particular emphasis on the work of H. H. Richardson, Louis Sullivan, Frank Lloyd Wright, and the European architects of the International Style. Recommended background, 11 or 239. Open to sophomores. M T W 2. Mr Hitchcock.
- 351 *Venetian Art: Fifteenth and Sixteenth Centuries.* An intensive four weeks' study of the original monuments of architecture, sculpture, drawing and painting, still in place in Venice. *Six hours.* Summer of 1961. Mrs Kennedy.
- 40b Members of the Department. Mr Larkin (*Director*).
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours of art above Grade I. *Two or three hours.*

SEMINARS

All seminars are open to juniors and seniors by permission of the instructor unless otherwise indicated.

- [42a *Criticism of Art.* Principles and practice of analyzing, interpreting, and judging works of art. Open only to senior art majors. Th 7:30. Mr Larkin.]
- 43a *Studies in Greek Sculpture.* Alternates with 44a. T 3-5:30. Mrs Lehmann.
- 43b *Studies in Hellenistic and Roman Art in Greece and Asia Minor.* M 7:30. Mr Vermeule.
- [44a *The Antique and the Italian Renaissance.* The survival and rediscovery of ancient works of art and their influence on such Italian Renaissance artists as Alberti, Mantegna, Raphael, Michelangelo, Titian, Palladio. Alternates with 43a. Th 3-5:30. Mrs Kennedy and Mrs Lehmann.]
- 45a *Studies in Renaissance Art.* Th 4-6. Mr Holderbaum.
- 46a *The Renaissance in Italy and Its Reflection in Art.* Open to junior and senior majors in art and history. Th 3-5:30. Miss Gabel and Mrs Kennedy.
- 48b *Nineteenth and Twentieth-Century Painting.* T 4-6. Mrs Van der Poel.
- [49a *Problems in Seventeenth-Century Art in Italy, France, and Spain.* Given in alternate years. W 7:30.]
- 49b *Studies in Northern Painting.* Th 7:30. Mr Judson.
- [413b *Studies in Mediaeval Art.* T 7:30. Mr Harris.]

ART

- 414b *Landscape in Nineteenth-Century America and Its English Origins.* T 7:30. Mr Huntington.
- 415a *Daumier and His Time.* A study of Daumier in relation to the literary and artistic movements of the period 1830-1870. Th 7:30. Mr Larkin.
- 426a *Sources of Modern Architecture in the Nineteenth Century.* Alternates with 427a. M 7:30. Mr Hitchcock.
- [427a *Architecture Since 1890.* The problem of style in modern architecture. Alternates with 426a. M 7:30. Mr Hitchcock.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies. *One hour or more.*
- 55, 55a, 55b *Art of the Italian Renaissance.* Mr Holderbaum.
- 57a, 57b *Modern Art.*

For further information about graduate work in art, application should be made to the Chairman of the Department. Adviser of graduate study: Mr Judson.

B. Studio Courses

A fee is charged for materials in 13, 239, 312a and b, 335a and b, 336a and b, 339, 341.

- 13 *Introduction to the Theory and Practice of Art.* Appreciation and understanding of the basic principles underlying the structure of the arts, through studio practice in handling the elements of color, volume, movement, space, line, and texture. Lectures, demonstrations, films, discussion, and workshop experiments. M 9; eight studio hours of which four must be M T 10-12, 2-4; Th F 10-12. Mr Jules (*Director*).
- 210a *Drawing and Pictorial Organization.* Analysis of form in line and tone; and projects in composition, using various techniques of drawing. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 210b *Intermediate Painting.* Experimentation with color and the techniques and expressive possibilities of varied painting media. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T 2-5. Mr Cohen.
- 239 *Introduction to Architecture and Landscape.* Preliminary instruction in drafting, perspective, and lettering, followed by planning and designing in both fields. Th F 2-5. Mr Garland.

- 312a *Sculpture*. Methods of stone carving. Open to sophomores by permission of the instructor. Prerequisite, 13. Nine studio hours of which six must be M T W 10-12. Mr Baskin.
- 312b *Sculpture*. Work in stone carving; methods of wood carving. Open to sophomores by permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Baskin.
- 331a *Advanced Painting*. Problems in pictorial organization with emphasis on oil painting. Prerequisite, 210b or 335a. Nine studio hours of which six must be Th F 2-5. Mr Jules.
- 331b *Advanced Painting*. Individual expression in painting, using various media. Open by permission of the instructor. Th F 2-5. Mr Jules.
- 335a *Design Workshop*. Two and three-dimensional experimental work in form, color, and structure. Open to sophomores. Prerequisite, 13 and permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Offner.
- 335b *Design Workshop*. Continuation of 335a with emphasis on three-dimensional work. Open to sophomores. Prerequisite, 13, 335a or permission of the instructor. Nine studio hours of which six must be M T W 10-12. Mr Offner.
- 336a *Graphic Arts*. Methods of print-making. Open to sophomores. Prerequisite, 13. Nine hours of which six must be M T 2-5. Mr Baskin.
- 336b *Graphic Arts*. Continuation of 336a. Open to sophomores. Prerequisite, 336a or permission of the instructor. Nine hours of which six must be M T 2-5. Mr Baskin.
- 339 *Architecture*. Further problems in planning and design together with instruction in elementary construction. Prerequisite, 239. Th F 11-1. Mr Garland.
- 341 *Landscape Architecture*. Advanced problems in landscape design. Prerequisite, 239. Th F 11-1. Mr Garland.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in art. *Two or three hours*.
- 510 *Architecture*.
- 512 *Landscape Architecture*.
- 513a, 513b *Painting, Sculpture, Design, or Graphic Arts*. Members of the Department

ASTRONOMY

THE MAJOR

Advisers: Mr Larkin, Mrs Van der Poel, Mr Jules, Mr Cohen, Mr Holderbaum, Mr Judson, Mr Huntington, Mr Garland.

Based on 11 or 13. If the major is based on 13, 11 must also be taken.

Essential Courses: 40b and eighteen semester hours in art of which at least nine must be from Division A.

Optional Courses: other courses in art; Philosophy 33; Education 415a; closely related courses in other fields.

HONORS

Director: Mrs Kennedy.

Prerequisite: 11.

Program: an arrangement, approved by the director, of courses and seminars (or special studies) in art and related fields in preparation for general examinations.

In the senior year the candidate will present a long paper for the first semester and spend three hours in a review unit during the second term.

Examinations: one general examination; one based on specific fields; one testing the candidate's ability to analyze and interpret original works of art.

ASTRONOMY

ASSISTANT PROFESSOR:

EDWARD COOPER OLSON, PH.D.

VISITING LECTURERS:

ROBERT HARRY KOCH, PH.D. (Assistant Professor, Amherst College)

†ALBERT PAUL LINNELL, PH.D. (Associate Professor, Amherst College)

KENNETH MYRON YOSS, PH.D., *Acting Chairman* (Associate Professor, Mount Holyoke College)

TEACHING FELLOW:

VIRGINIA STEVENS, A.B.

The astronomy department is a joint four-college department. Courses designated FC (four college) are taught jointly with Amherst College, Mount Holyoke College, and the University of Massachusetts. The astronomical resources of all four institutions are available for advanced student use. In special cases, student research and thesis materials may be obtained from major observatories.

ASTRONOMY

Astronomy 11a and 11b may be elected to fulfill the distribution requirement in Division III.

A student interested in an astronomy major should consult with the Department as early in her college career as possible. The prospective major is encouraged to begin her study of physics and mathematics as soon as possible.

Astronomy 11a and 11b are prerequisites for all FC courses except FC 41a and FC 42b. Physics 11 or 15 is a prerequisite for all FC courses except FC 24b.

11a *Introduction to Astronomy.* The motions and physical nature of the moon, the planets, comets, and meteors. Introduction to elementary astronomical spectroscopy and the laws of radiation. Hypotheses of the origin of the solar system. The structure of the sun and general properties of near-by stars. Opportunity for laboratory work, astronomical observation, and the use of the Amherst College planetarium. No college mathematical preparation required. Lectures and discussion, three hours, Th F S 9; laboratory-observation periods, two hours, W Th 8-10 P.M., or arranged.

11b *Introduction to Astronomy, continued.* Study of stars, stellar systems, and recent theories of stellar and galactic evolution. Opportunity for laboratory work and astronomical observation, including techniques and analysis in elementary astronomical photography. No college mathematical preparation required. Prerequisite, 11a. Three hours, Th F S 9; laboratory-observation periods, two hours, W Th 8-10 P.M., or arranged.

[21b *Descriptive Astronomy.* Designed to give a general knowledge of the field. Opportunity for learning the constellations and for using the telescopes. For students who have not taken 11. T 7-9, W 2. Occasional observing Th 7-8. Mr Olson.]

[FC 24b *Development of Astronomy.* The progress of astronomy through the work of great men. The development of important ideas in the field from ancient to modern times. Grade II. M W 1:45-3, University of Massachusetts.]

FC 31a *Statistical Astronomy.* Stellar motions as derived from trigonometric, spectroscopic, and statistical parallaxes, proper motions and radial velocities. Stellar luminosity functions, and related topics. For students who have had or are taking Mathematics 12, 13 or 14. Grade II. M W 1:45-3, Mount Holyoke College. Mr Yoss.

[FC 32b *Galactic Structure.* Properties of the galactic system revealed by star clusters, the general distribution of stellar types, and the interstellar medium. Kinematics and dynamics of galactic motion. Recent results from the field of radio

ASTRONOMY

astronomy. For students who have had or are taking Mathematics 12, 13 or 14. Grade III. M W 1:45-3, Mount Holyoke College. Mr Yoss.]

FC 33a *Celestial Mechanics*. Development of the two body problem and the restricted three body problem as applied to the solar system and stellar systems. For students who have had or are taking Mathematics 12, 13 or 14. Grade III. M W 3:30-4:45, Amherst College. Mr Koch.

[FC 34b *Double Stars*. Analysis of the orbits of double stars and discussion of their physical characteristics. For students who have had or are taking Mathematics 12, 13 or 14. Grade III. M W 3:30-4:45, Smith College. Mr Koch.]

FC 39a *Laboratory Astronomy*. Study and development of observing procedures. Analysis of astronomical observations. One classroom hour, four laboratory hours per week. For students who have had or are taking Mathematics 12, 13 or 14. Grade IV. T 1:45-4:45, Th 7:30-9:30, Smith College. Mr Olson.

FC 41b *Astrophysics I*. Introduction to the theory of atomic spectra as applied to the analysis of stellar atmospheres. Transfer of radiation, determination of temperatures, pressures, and abundances. For students who have had or are taking Mathematics 21a or 22a. Grade IV. T Th 1:45-3, Smith College. Mr Olson.

[FC 42b *Astrophysics II*. Gas laws and nuclear reactions as applied to the structure of stellar interiors. Evolution of stars. For students who have had or are taking Mathematics 21b or 22b. Grade IV. T Th 1:45-3, Amherst College. Mr Linnell.]

40b Synoptic Course designed to correlate the work in the major field.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in astronomy. *Two or three hours*.

50, 50a, 50b Research and Thesis. An individual research project approved by the Department. Prerequisite, consent of the Department. *Three or six hours*.

THE MAJOR

Adviser: Mr Olson.

Based on 11a, 11b.

Essential courses: FC 31, FC 32 (or other combinations approved by the department); Physics 11 or 15, Mathematics 21a, 21b, or equivalent, and at least nine additional hours in Astronomy and six additional hours in related sciences or Mathematics.

BACTERIOLOGY AND PUBLIC HEALTH

HONORS

Director: Mr. Olson or other member of the Joint Department.

Prerequisites: 11a and 11b; Physics 11 or 15, Mathematics 21a, 21b, or equivalent.

Essential courses: FC 31, FC 32, FC 33, FC 39 (or other combinations approved by the department), and at least six additional hours in Physics and six additional hours in Mathematics.

During her senior year, the honors candidate will prepare a thesis on a topic approved by the department, on which there will be an oral examination. In addition, there will be two examinations, one in the general area of astrophysics, the other in galactic and extragalactic studies.

BACTERIOLOGY AND PUBLIC HEALTH

PROFESSOR:	ELINOR VAN DORN SMITH, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSOR:	ELIZABETH DOROTHY ROBINTON, PH.D.
INSTRUCTOR:	ELIZABETH ANN TYRRELL, M.S.
TEACHING FELLOW:	MARILYN JOYCE BROTHERS, B.S.

BACTERIOLOGY

Students planning to major in Bacteriology are advised to take Chemistry 11 or 12 and a course in bacteriology or zoology before the junior year.

- 22 *General Bacteriology.* A systematic study of representative groups of bacteria with emphasis on their relation to domestic, economic, and public health problems. Prerequisite, Chemistry 11 or 12. Two lectures and two two-hour laboratory periods. Lec. M T 10; lab. M W 2. Miss Tyrrell.
- [27a *General Microbiology.* Outline of the biological relationships of microorganisms to higher forms of life and the interrelationships among microorganisms. Lectures and demonstrations. M T W 12. Miss Smith.]
- 27b *Microorganisms of Importance to Man.* A study of microbial activities in relation to the life of the individual and the community. Lectures and demonstrations. M T W 12. Miss Smith.
- 34 *Advanced Bacteriology and Serology.* Basic theories and applications of bacteriological and serological methods for the identification of pathogenic bacteria. Prerequisite, 22. One lecture and five hours of laboratory. Lec. Th 2; lab. Th 3-5, F 2-5. Miss Smith.

BACTERIOLOGY AND PUBLIC HEALTH

- 40b *Microbiology and Serology in the Twentieth Century.* Readings and discussion. Members of the Department.
- 41, 41a, 41b Special Studies in bacteriology and serology. By permission of the Department for senior majors who have had twelve semester hours in essential courses in the major above Grade I. *Two, three or six hours.*
- [42b *Pathogenic Fungi and Antibiotics.* Systematic studies of the higher bacteria and fungi of medical importance. Prerequisites, 22 and first semester of 34. Two lectures and two two-hour laboratory periods. Alternates with 46b. Miss Robinton, Miss Tyrrell.]
- 43a *Seminar in Backgrounds of Microbiology.* A survey of the discoveries and developments in scientific thinking which culminated in the science of bacteriology. Prerequisite, 22. Miss Robinton.
- 44b *Journal Seminar.* A study of source materials including current periodicals in bacteriology and immunology. By permission of the instructor for students who have passed or are taking 34. *One hour.* Miss Smith.
- 46b *Introduction to Virology.* An introduction to the current concepts of virus multiplication and the resultant effects on host cells; the techniques of virus propagation; and the methods of titration and neutralization. Prerequisites, 22 and the first semester of 34. Two lectures and two two-hour laboratory periods. Alternates with 42b. Miss Tyrrell.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51a, 51b Advanced Studies. *One hour or more.*
- 55a, 55b *Problems in Bacteriology and Serology.* *Two hours or more.* Miss Smith.
- 56b *Problems in Pathogenic Fungi and Antibiotics.* *Two hours or more.* Miss Robinton.

PUBLIC HEALTH

- [21b *Environmental Sanitation.* A study of air, water, and food in relation to man and his environment and the development of public health practices for their control. M T W 9. Miss Robinton.]
- [32a *Concepts of Public Health.* A study of the development of the modern public health movement from the "sanitary awakening" of the nineteenth century to the present day. Emphasis will be placed on the basic ideas and activities of official and non-official organizations. M T W 9 Miss Robinton.]

BOTANY

412b *Health Education* (seminar). Problems in the dissemination of accurate health information to the individual and the community. Miss Robinton.

Adviser of graduate study: Miss Robinton.

INTERDEPARTMENTAL MAJOR IN BACTERIOLOGY

Adviser to the major: Miss Smith.

Essential Courses: Chemistry 11 or 12, 21, 31a; Bacteriology 22, 34, 40b; Zoology 12 or 22.

Optional Courses: courses in chemistry, bacteriology, botany, physics, zoology, or mathematics approved by the adviser.

HONORS

Director: Miss Smith.

Prerequisites, normally taken before junior year: Bacteriology 22; Chemistry 21; Zoology 12 or 22.

Program:

Requirements: Bacteriology 34, 43a; Chemistry 31a; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, zoology, bacteriology, botany, physics, or mathematics approved by the director.

Examinations: one in chemistry, one in bacteriology, one selected according to the student's program.

BOTANY

ASSOCIATE PROFESSOR:	KENNETH E. WRIGHT, PH.D., <i>Chairman</i>
ASSISTANT PROFESSOR:	DAVID ANDREW HASKELL, PH.D.
INSTRUCTOR:	CARL JOHN BURK, PH.D.
HORTICULTURIST:	WILLIAM I. P. CAMPBELL

Among the courses which may be taken to fulfill the distribution requirement in Division III are Botany 11 and Biological Science 195.

Students planning to major in botany are advised to have a knowledge of general zoology or chemistry. See the honors program for additional preparation required.

Unless otherwise stated the prerequisite for all courses above Grade I is 11, Biological Science 195, or permission of the instructor.

Sophomores may elect Grade III courses with the permission of the instructor.

BOTANY

- 11 *General Botany.* A study of the life processes and structure of seed plants with emphasis upon their relationship to the needs of man. A survey of representative types of other green and nongreen plants; reproduction, heredity, evolution. Two lectures and two two-hour laboratory periods. Lec. Th F 12; lab. M T 9, 11, 2; Th F 9, 2. Mr Wright (*Director*), Mr Haskell, Mr Burk.
- [22a *Economic Botany.* Plants useful to man as a source of food, spices, beverages, drugs, shelter, fuel, textiles, and the raw materials of many industries. Two lectures and one two-hour laboratory period. Th F 9-11.]
- 27 *Horticulture.* Theory and practice of plant cultivation and improvement, with a study of the species commonly cultivated and the preparation of gardens. Two lectures and two two-hour laboratory periods. Th F 10-1. Mr Campbell.
- 31a *Comparative Morphology of the Non-Vascular Plants.* Studies in the structure, reproduction, phylogeny, classification, and significance of selected algae, fungi, liverworts, and mosses. Offered in alternate years. Two lectures and four hours of laboratory. M T 2-5. Mr Haskell.
- 31b *Comparative Morphology of the Vascular Plants.* Studies in the structure, reproduction, phylogeny, classification, and significance of living and extinct ferns, fern allies, gymnosperms, and angiosperms. Two lectures and four hours of laboratory. M T 2-5. Mr Haskell.
- [32a *Microtechnique.* Methods used in the preparation of various plant materials for microscopic study. Offered in alternate years. Six hours of laboratory. M T 2-5. Mr Haskell.]
- [33a *Plant Breeding.* The principles and problems of inheritance in plants and the methods by which man obtains new varieties. Offered in alternate years. M T W 10. Mr Wright.]
- [33b *Plant Geography.* Climate and climatic plant formations of the world. Problems of distribution in relation to migration and barriers. Two lectures and one discussion. M T W 10.]
- 35 *Plant Physiology.* A study of plant processes and functions. Offered in alternate years. Two lectures and two two-hour laboratory periods. M T W 11-1. Mr Wright.
- 36a *Plant Taxonomy.* A study of ferns and flowering plants with special emphasis on the Northampton region. Principles of classification. Field trips in the fall. One lecture and five hours of laboratory or field work. Th F 2-5. Mr Burk.

BOTANY

- 36b *Plant Ecology.* A study of plant communities, particularly as exemplified by local vegetation. Prerequisite, 36a, or permission of the instructor. Field trips in the spring, including one of two days. Two hours of lecture and four hours of laboratory or field work. Th F 2-5. Mr Burk.
- 40a A paper correlating material from several fields of botany. Members of the Department.
- 41, 41a, 41b Special Studies: work in morphology, anatomy, physiology, taxonomy, ecology, phycology. By permission of the Department for senior majors who have had twelve semester hours in botany above Grade I. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies in the fields of morphology, anatomy, physiology, taxonomy, ecology, phycology, arranged in consultation with the adviser of graduate study. *One hour or more.* Members of the Department.
- 52a, 52b Selected problems in a specific field of botany assigned for investigation, experimental work, and discussion. *One hour or more.*
- 56a, 56b Seminar on recent advances and current problems in botany. Selected topics for reading and individual reports. *One hour.* Members of the Department.

Adviser of graduate study: Mr Wright.

THE MAJOR

Adviser: Mr Wright.

Based on 11 or Biological Science 195.

Essential Courses: 40a and eighteen hours in botany of which at least twelve must be above Grade II.

Optional Courses: other courses in botany above Grade I; courses in bacteriology, chemistry, geology, physics, and zoology.

HONORS

Director: Mr Wright.

Prerequisites: 11; Chemistry (one year in preparatory school or college).

Program:

Requirements: 36a (taken before junior year if possible); 31a, 31b, 35; six hours of Grade IV or V in botany, involving a problem and a paper; three hours of directed reading and review.

Optional: courses approved by the director.

Examinations: a general examination covering major fields of botany; one in identification and interpretation of materials and in application of techniques; one in the special field of the candidate.

CHEMISTRY

PROFESSORS:	KENNETH WAYNE SHERK, PH.D. MILTON DAVID SOFFER, PH.D. GEORGE STONE DURHAM, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	STEPHEN JULIUS TAUBER, PH.D. GEORGE MORRISON FLECK, PH.D. KENNETH PAUL HELLMAN, M.S.
ASSISTANT:	ELEANOR BERMAN ROTHMAN, A.B.
TEACHING FELLOWS:	GÜNİZ EMINE GÜNAY, B.S. NATALIE SAYRE, A.B. SEVGİ SÜMER, B.S.
RESEARCH FELLOW:	CLARA ISABEL ADAMS, M.S.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Chemistry 11, 12, and Physical Science 193.

Students who are planning to major in chemistry should elect 12 (or 11) in freshman year. They are advised to complete Mathematics 12, 13 or 14 the first year.

- 11 *General Chemistry.* A basic course with emphasis on the relationships of the properties of matter to atomic and molecular structure. The development of ideas and principles is stressed. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M Th 2-5. Mr Hellman.
- 12 *Principles of Chemistry.* An intermediate course centered on the study of basic concepts and their relations to the behavior of the more common elements and compounds. In the second semester the principles of equilibrium are applied to inorganic qualitative analysis. This course is designed for students who are especially interested in chemistry as a basis for further study in science and who offered a unit of chemistry for entrance. Two lectures, one discussion, and one three-hour laboratory. Lec. Th F S 10; lab. M T F 2-5. Mr Sherk.
- 12b The second semester of 12 for majors who have taken 11.
- 21 *Organic Chemistry.* A first course in the theory and practice of organic chemistry. Prerequisite, 11 or 12. Two lectures, one discussion, and one three-hour laboratory period. Lec. and dis. M T W 12; lab. M T Th F 2-5. Mr Soffer, Mr Tauber.
- 31a *Quantitative Analysis.* Standard volumetric and gravimetric methods of analysis. Recommended background, 12b. Lecture, discussion, and five laboratory hours. Lec. and dis. Th F 12; lab. Th 2-5, F 2-4. Mr Fleck.

CHEMISTRY

- 32 *Physical Chemistry.* Theoretical chemistry, including the properties of matter in various states, thermodynamics, equilibrium, kinetics and electrochemistry. For students who are taking or have had 31a. Prerequisites, six hours in Mathematics and in Physics, or by permission of the instructor. Two lectures, discussion, and one three-hour laboratory period. Lec. and dis. M T W 9; lab. M T 2-5. Mr Durham.
- 33b *Organic Qualitative Analysis.* The separation, characterization, and identification of organic substances; theory and practice. Prerequisite, 21. One lecture and two three-hour laboratory periods. Lec. hour to be arranged; lab. Th F 2-5. Mr Tauber.
- 40b Integrating Paper. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in chemistry. *Two or three hours.*
- 42a *Biochemistry.* The chemistry of biologically active substances. Prerequisite, 21. Three hours of lecture. Mr Hellman.
- 44b *Advanced Inorganic Chemistry.* Selected topics with emphasis on structural considerations. Prerequisite, twelve hours of chemistry. Lec. Th F 11 and one hour to be arranged. Mr Fleck.
- 45b *Instrumental Methods.* A theoretical and practical study of the applications of various optical and electrical instruments to problems of analysis and structure. Prerequisite, 31a. One lecture and six hours of laboratory.
- 46b *Physical Organic Chemistry.* The relationship of molecular structure to chemical properties, with emphasis on organic reaction mechanisms. Prerequisites, 21 and 32, or by permission of the instructor. Three hours of lecture. Mr Tauber.
- 47a *Organic Techniques.* A study of laboratory procedures used in organic preparations and research. Prerequisite, 21. One lecture and six hours of laboratory. Hours to be arranged. Mr Tauber.

Graduate Courses

These courses are open to seniors by permission of the Department. It is suggested that a student majoring in chemistry take at least one graduate course.

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Special Studies. (1) Advanced Organic Preparations; (2) Quantum Chemistry; (3) Contemporary Literature; (4) Heterocyclic Natural Products; (5) Theory of Solutions; (6) Electrochemistry; (7) Organic Reaction Mechanisms. *One hour or more.*

CHEMISTRY

- 55a *Advanced Physical Chemistry.* A treatment of selected topics including quantum chemistry, statistical thermodynamics, and catalysis. Prerequisite, 32 or its equivalent. Mr Fleck.
- 55b *Advanced Physical Chemistry.* Kinetics. Prerequisite, 32 or its equivalent. Mr Fleck.
- 58a *Organic Reactions.* An integrative review of organic reactions, with the discussion of selected theoretical aspects. Mr Tauber.
- 59b *Carbocyclic Natural Products.* The chemistry of terpenic and steroid substances, with particular emphasis upon methods of structural investigation and synthesis. Mr Soffer.

Adviser of graduate study: Mr Soffer.

THE MAJOR

Advisers: Members of the Department.

Based on 21. Students who have taken 11 must also take 12b before their senior year. Essential Courses: 31a, 32, 40b, and six additional semester hours in chemistry; six semester hours in mathematics and in physics. In the senior year at least twelve semester hours must be taken in the Department.

Recommended Courses: Mathematics 21a or 22a, German 11.

Optional Courses: courses in chemistry above Grade II; other courses in mathematics and science which meet with the approval of the adviser.

The program recommended above meets the requirements of the American Chemical Society for eligibility for professional standing.

HONORS

Director: Mr Durham.

Prerequisite: 21. Students who have taken 11 must also take 12b before their senior year.

Program:

Essential Courses: 31a, 32, the Honors Unit, and six additional semester hours in chemistry; six semester hours in physics and in mathematics. Mathematics 21a or 22a and German 11 are recommended. The Honors Unit consists of three semester hours each semester of the senior year to be spent on an individual investigation.

Examinations: one in inorganic chemistry and qualitative analysis; one in organic chemistry and related subjects; one in physical chemistry and quantitative analysis.

CLASSICAL LANGUAGES AND LITERATURES

PROFESSOR:	GEORGE EDWARD DIMOCK, JR., PH.D., <i>Chairman</i>
VISITING PROFESSOR:	LOUISE ADAMS HOLLAND, PH.D.
ASSOCIATE PROFESSOR:	†HELEN H. BACON, PH.D.
VISITING LECTURER:	C. JOHN HERINGTON, M.A.
INSTRUCTOR:	STEPHEN SCHNEIDERMAN, A.M.

The distribution requirement in Group A may be fulfilled by six hours of ancient literature in the original, or six hours of ancient literature in translation. The following are primarily language courses, and do not count for distribution: Greek 11, 16, Latin, 11, 26.

Students planning to major in classics are advised to take relevant courses in other departments, such as art, history, philosophy, and modern languages.

A major in Greek or in Latin may be arranged on consultation with the chairman.

GREEK

The prerequisite for courses of Grade III is 22b or 24b, or permission of the instructor.

- 11 *Elementary Course.* Introduction to the language; selections from Greek literature. Five class hours. *Three hours each semester.* T W Th F S 9. Mr Dimock.
- 12a *Plato: Selected Dialogues.* Prerequisite, two units in Greek or 11. W Th F 2. Mr Schneiderman. (L)
- 12b *Homer.* Prerequisite, 12a or permission of the instructor. W Th F 2. Mr Herington. (L)
- [16 *Prose Composition.* Prerequisite two units in Greek or 11. *One hour each semester.* To be given 1962-63.]
- 21a *The Drama: Euripides and Sophocles.* Prerequisite, 12b or three units in Greek. Mr Herington. (L)
- 22b *Homer, Advanced Course.* Prerequisite, 21a or its equivalent. Mr Dimock. (L)
- [23a *Herodotus.* Prerequisite, three units in Greek or 12b. To be given 1962-63. (L)]
- [24b *The Drama: Aeschylus and Aristophanes.* Prerequisite, 23a or its equivalent. To be given 1962-63. (L)]

CLASSICAL LANGUAGES & LITERATURES

[31a *Greek Historians.* To be given 1962-63.]

[32b *Drama, Advanced Course.* To be given 1962-63.]

33a *Selections from Lyric and Pastoral Poets.* Mr Schneiderman.

34b *Plato, Advanced Course.* Mr Schneiderman.

41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours.*

Religion 25b *Greek New Testament.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51a, 51b Advanced studies in Greek literature arranged on consultation. *One hour or more.*

Adviser of graduate study: Mr Dimock.

LATIN

The prerequisite for courses of Grade II is 14b, or permission of the instructor; for courses of Grade III, 22b or 24b, or permission of the instructor.

11 *Elementary Course.* Introduction to the language; selections from Latin literature. Five class hours. *Three hours each semester.* T W Th F S 9. Mr Schneiderman.

12a *Poetry of Ovid and Related Prose.* Prerequisite, two units in Latin or 11. Th F S 10. Mr Dimock. (L)

12b *Vergil, Aeneid.* Prerequisite, 12a or permission of the instructor. Th F S 10. Mr Schneiderman. (L)

14a *Poetry of Catullus and Related Prose.* Prerequisite, three units in Latin. Th F S 11. Mrs Holland. (L)

14b *Vergil, Eclogues; Horace, Odes and Epodes.* Prerequisite, 14a or permission of the instructor. Th F S 11. Mrs Holland. (L)

21a *Medieval Latin.* Mrs Holland.

22b *Roman Elegiac Poetry.* Mrs Holland.

[23a *Latin Historians.* To be given 1962-63.]

CLASSICAL LANGUAGES & LITERATURES

- [24b *Latin Comedy*. To be given 1962-63.]
- 26 *Prose Composition*. Prerequisite, 14b or permission of the instructor. *One hour each semester*. Mr Herington.
- [33a *Vergil, Advanced Course*. To be given 1962-63.]
- [34b *Roman Satire*. To be given 1962-63.]
- 35a *Cicero, Advanced Course*. Mrs Holland.
- 36b *Lucretius*. Mrs Holland.
- 41, 41a, 41b Special Studies. By permission of the Department for majors who have had twelve semester hours above Grade I in the Department. *Two or three hours*.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51a, 51b Advanced studies in Latin literature arranged on consultation. *One hour or more*.
- Adviser of graduate study: Mrs Holland.

CLASSICS

- 18a *Greek and Roman Epic and Drama in Translation*, including such works as Homer's *Odyssey*, Aeschylus' *Oresteia*, Sophocles' *Antigone* and *Electra*, Euripides' *Alcestis* and *Medea*, Vergil's *Aeneid*. Th F S 11. Mr Dimock.
- 18b *Greek and Roman Prose and Shorter Verse Forms in Translation*, including such works as Herodotus' *Histories*, dialogues of Plato, selected *Lives* of Plutarch, Greek lyrics, odes of Pindar, Livy's *Ab Urbe Condita*, poems of Catullus, Horace and Ovid. Th F S 11. Mr Dimock.
- 27a *Classical Romance, Pastoral, and Satire*, including such works as Longus' *Daphnis and Chloe*, Petronius' *Satyricon*, Apuleius' *Golden Ass*, Vergil's *Eclogues* and *Georgics*, selected *Lives* of Plutarch. Open to freshmen exempted from English 11. Th F S 12. Mr Herington.
- 29b *Ancient Drama in Translation*, including a number of comedies of Aristophanes, and a large selection from those Greek tragedies not usually read in school and college. Open to freshmen exempted from English 11. Th F S 12. Mr Herington.
- 40b Review Unit. Required of all majors in the Department.

ECONOMICS

THE MAJOR IN CLASSICS

Adviser: Mr Dimock.

Based on Greek 11 and Latin 14a and b (or, by permission of the adviser, Latin 12b).

Essential Courses: Greek 16, Latin 26, Classics 40b, eighteen semester hours chosen from Greek and Latin courses of Grade II or above.

Optional Courses: other courses in Greek; courses in Latin above Grade I; allied courses in other departments.

A major in Greek or in Latin may be arranged on consultation with the chairman.

HONORS

Director: Mr Dimock.

Director: Mr Dimock. An honors program in Greek or Latin may also be arranged. Program: to be arranged with the director.

Examinations: one will test the candidate's ability to read Greek and Latin; one, her general knowledge of Greek and Latin literature and classical culture; and one, her mastery of her field of concentration.

ECONOMICS

PROFESSOR:	DOROTHY CAROLIN BACON, PH.D., <i>Chairman</i>
ASSOCIATE PROFESSORS:	ELEANOR MARTHA HADLEY, PH.D. †GEORGE FISK MAIR, PH.D. KENNETH HALL MCCARTNEY, PH.D.
LECTURER:	STANLEY CURTIS ROSS, A.B., LL.D.
ASSISTANT PROFESSORS:	PETER E. SLOANE, M.A. ROBERT TABOR AVERITT, PH.D.
INSTRUCTOR:	MARCIA LILLIAN HALVORSEN, B.A.

Among the courses which may be taken to fulfill the distribution requirement in Group E are Economics 21, Social Science 192.

A. General Courses

- 21 *The Structure and Functioning of Modern Economies.* An introduction to economic principles through the study of economic institutions and problems, including such topics as the production and distribution of goods, the value of money, the level of employment and income, and international trade. Open to freshmen by permission. Lec. W 12. Sect. M T 9, 10, 12, 2; Th F 9, 11, 12. Miss Bacon (*Director*), and members of the Department.

ECONOMICS

- 21b The second semester of 21 for students who have passed Social Science 192. Open also to sophomores who are taking Social Science 192.
- [22a *Basic Economics*. A study of the economic factors that determine how and to what extent the resources and manpower of the country are used to produce goods and services. Open only to students who have passed Social Science 192. M T W 10. Mr Mair.]
- [24a *Principles of Accounting*. The theory of debits and credits. The organization and use of accounting records, the construction and interpretation of balance sheets and statements of revenue and expense, and selected special topics. Th F 11, Th 3-5.]
- 28a *Basic Statistics*. Tabulation, graphic presentation, averages, measures of dispersion, simple correlation, and sampling. Lec. M T 12; lab. M T 3-5. Mr Averitt.
- 29 *Development of Western Economic Society*. Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr McCartney, second semester.
- [214a *Personal Finance and Consumer Economics*. Some bases for economic decisions and methods of economic response at the individual and family level. For freshmen by permission of the instructor. Not open to students who have taken or are taking Economics 21 or 22a.]
- 31a *Advanced General Economics*. The theory of the firm, the household, and the market, and its application to the American economy. Recommended for juniors majoring in the department. Prerequisite, 21, 21b, or 22a. M T W 10. Mr Averitt.
- [31b *Advanced General Economics, continued*. Further topics, with particular emphasis on the determination and effects of the level of national income.]
- 38b *Economic Statistics*. Multiple correlation, index numbers, time series, and selected applied topics. Open to sophomores. Prerequisite, 28a. Lec. M T 12; lab. T 3-5. Mr Averitt.

B. The American Economy

- 32a *American Labor Movement*. Rise of American trade unions, their philosophies and internal administration. Process of collective bargaining; policies, strategies and problems. Governmental regulation and intervention in labor-

ECONOMICS

- management relations. Open to sophomores who have passed 21. M T W 9. Mr McCartney.
- 35 *Money, Banking, and Economic Fluctuations.* American and foreign monetary and financial systems, the foreign exchanges, problems of inflation, depression and levels of economic activity, the changing role of the government. Prerequisite, 21, 21b, or 22a. Th F S 9. Miss Bacon, first semester; Mr Sloane, second semester.
- [36a *Public Finance.* Analysis of the economic functions of governments. Purposes and effects of taxation and of government borrowing and spending. Current controversies. Prerequisite, 21, 21b, or 22a. Th F S 10.]
- [39a *Problems in Economic Security.* A critical examination of the American social insurance system. Consideration will be given to the programs in old age and survivors' insurance, public assistance, unemployment compensation, workmen's compensation, rehabilitation, and disability insurance together with proposals for financing medical care. Prerequisite, 21, Social Science 192, or permission of the instructor. M T W 11. Miss Hadley.]
- 312b *Business Enterprise.* The organization, financing, and management of business in the United States and selected foreign countries. Problems and policies. Prerequisite, 21, 21b or 22a. M T W 11. Miss Hadley.
- 313a *Government and Business.* The development of public control of business and agriculture in the United States. Problems of present-day regulation. Prerequisite, 21, 21b, or 22a. M T W 11. Miss Hadley.

C. International and Comparative Economics

- 33b *Comparative Labor Movements.* Problems of the labor force and the labor movement in selected industrialized and underdeveloped areas. Role of the labor movement in national economic, political and social life abroad. International agencies in the field of labor. Prerequisite, 21, 21b, or 22a. M T W 9. Mr McCartney.
- 315a *International Economics.* Postwar international economic problems, their historical and theoretical backgrounds, foreign economic policies of the United States. Prerequisite, 21, 21b, 22a, or, by permission of the instructor, Social Science 192. Th 4-6, and one hour to be arranged. Miss Bacon.

ECONOMICS

- [316b *International Economics, continued.* Further topics, including the application of the theory of international trade and the theory of economic growth to current questions of commercial policy and of economic development. Prerequisite, 315a. Th F S 11.]
- 319a *Comparative Economics: Modern Industrial Systems.* Basic economic issues in capitalism, socialism, communism, and fascism, and their relationships to political and social problems. Particular attention to the United States, Great Britain, and the U.S.S.R. Prerequisite, 21, 21b, 22a, or permission of the instructor. W 7:30-9:30 F 10. Mr Sloane.
- 320b *Comparative Economics: Underdeveloped Areas.* A comparative study of the economies of selected underdeveloped countries in their political and social setting. Problems of development. Japan as a unique case of non-Western industrialization. Prerequisite, 21, 21b, 22a, or permission of the instructor. Th 4-6, and one hour to be arranged. Miss Bacon.
- [324b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. Open to sophomores by permission of the instructor. To be given in 1962-63. Mr Mair.]

SEMINARS

- 42b *Problems in Applied Economics.* Topic for 1961-62: Japan—A Case Study in Industrial Development, 1868-1960. Miss Hadley.
- 411a *Major Economic Issues in American Presidential Campaigns.* Background and nature of the issues, opinions of contemporary economists, and impact on the economy of subsequent government action. Miss Halvorsen.

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History and Sociology.* The Military and Society. A comparative and historical study of the relationship between the armed forces and the social and political order in the United States, Europe, and Latin America. Social composition and ideology of the military, its social and political role, the problem of civilian control. Historical, economic, ideological, and political forces affecting conceptions of military strategy. Mr Chinoy, Mr Rothman.

ECONOMICS

- 40b *Major Economic Issues.* Required of all senior majors. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in economics above Grade I. *Two or three hours.*

THE MAJOR

Advisers: Members of the Department.

Based on 21, 21b, or 22a.

Essential Courses: 40b and eighteen semester hours in economics above Grade II.

Optional Courses: nine semester hours in economics or appropriate courses in other departments.

Majors may spend the junior year abroad if they meet the college requirements as stated under the description of the Junior Year Abroad.

HONORS

Director: Miss Bacon.

Prerequisite: 21, 21b, or 22a.

Program: 31a and the unit in *Economic Thought* are essential for honors, and count as six of the required eighteen hours of Grade III work. In addition to the eighteen hours, there is required in the first semester of the senior year a long paper to count as three or six hours, and in the second semester three hours of review.

Examinations: general theory and its applications; questions on individual fields in economics; questions coordinating the field of the major.

Units

[*Topics in Economic Stability and Growth.* Second semester. *Three hours.*]

[*Economic Thought.* Selected major figures in the development of economics. First semester. *Three hours.* Mr Sloane.]

[*Topics in Money and Banking.* First semester. *Six hours.*]

[*Comparative Economic Systems.* Second semester. *Three hours.*

[*Labor Problems.* First semester. *Three hours.* Mr McCartney.]

EDUCATION & CHILD STUDY

PROFESSOR:	CLIFFORD RICHARDSON BRAGDON, A.M., ED.M., <i>Chairman</i>
ASSOCIATE PROFESSOR:	HELEN EVANGELINE REES, ED.D., <i>Director</i> : Elisabeth Morrow Morgan Nursery School and the Smith College Day School
ASSISTANT PROFESSOR:	CHARLES EDWIN PETERSON, JR., PH.D.
LECTURERS:	RITA ALBERS JULES ² JOSEPH CONTINO, A.M. RONALD JEREMIAH DARBY, ED.M. ESTHER LEAH WEIN, ED.M. GEORGE T. PRATT, M.ED., L.H.D.

The following are recommended as background courses to students planning to major in education and child study: Biological Science 195, Psychology 11a, 25b, Social Science 192, Sociology 11a, Zoology 11 or 12.

Students who desire to comply with the varying requirements of different states for certificates to teach in public elementary and secondary schools are urged to consult the department as early as possible during their college course.

- 21a *Foundations of Education.* Historical and philosophical background of modern education. M T W 3. Mr Peterson.
- [22a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. M T W 12. Mrs Musgrave.]
- 22b A repetition of 22a. M T W 12. Mrs Musgrave.
- 23a *Child Psychology.* A study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Prerequisite, Psychology 11a. Th F S 9. Mrs Cohen.
- 23b A repetition of 23a. Open to freshmen who have passed Psychology 11a. Th F S 10. Mrs Cohen.
- 24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen. Prerequisite, Psychology 11a. Th F S 9. Mrs Cohen.
- [31a *The Child in Modern Society.* Place of the child in society: mental hygiene of early childhood; social and educational agencies concerned with child welfare. Directed observations. Open to sophomores by permission of the instructor. Th F 10 and one observation period.]

EDUCATION & CHILD STUDY

- 32b *Foundations of Secondary Education.* Characteristics of the secondary school pupil; present functions and organization of secondary schools; curriculum. Open to sophomores by permission of the instructor. M T W 2. Mr Peterson.
- 35a *The Preschool and Elementary School Child.* A study of growth, development, and guidance of children at home and in school from birth to adolescence. Directed observations in the laboratory schools. Recommended background, 21a and 22a or b or 23a or b. Two class hours and two hours of observation. T W 9. Miss Rees.
- 35b A repetition of 35a. M W 11. Miss Rees.
- 36b *American Education.* Evolution of American educational thought and institutions; development of American education related to the growth of the nation. Open to sophomores who have had a course in education. M T W 10. Mr Peterson.
- 37a *Comparative Education.* Influence of national culture upon education; contemporary reform and problems of education in England, France, Italy, Western Germany, and the U.S.S.R.; research on other national systems. Prerequisite, 21a or History 11. Open to sophomores by permission of the instructor. M T W 2. Mr Bragdon.
- 39a *Educational Evaluation and Guidance.* Study of the various means of evaluating learning and teaching; principles of guidance as they affect growth and development throughout the school years. M 4-6 and a laboratory period to be arranged. Mr Peterson.
- 40b Senior Unit, designed to correlate and unify the student's work in her major field. F 4-6. Mr Bragdon and members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in education. *Two or three hours.*
- [42b *Advanced Educational Psychology.* Selected problems, reports, and discussion. By permission of the instructor. Prerequisite, 23a or b, 24b, or 35a or b. Miss Rees.]
- 44a *Seminar in Child Psychology.* Selected problems, reports, and discussion. Prerequisite, 23a or b. Mrs Cohen.
- 45 *Preschool and Elementary Education.* A study of the curriculum and principles of teaching in the modern nursery school, kindergarten, and elementary school through grade eight. Two class hours and directed teaching participation. Prerequisite, 35a or b taken previously or 35a concurrently and permission of the instructor. *Four hours.* Th 4. Miss Rees.

EDUCATION & CHILD STUDY

- 46 *Secondary Education.* Procedures and curriculum in secondary schools. Two class hours and one period of observation and directed practice. Prerequisites, 32b and permission of the instructor. Th 4. Mr Bragdon, Mr Darby.
- [47b *Advanced Child Study.* Demonstration of and practice in techniques for the study of children. Each student plans and carries out an individual project. One period for discussion, two laboratory periods. Prerequisite, 34a or b or 35a or b, or Psychology 23a or b and permission of the instructor.]
- 410a, 410b *Teachers' Course.* (French 410a, 410b)
- 411a, 411b *Teachers' Course.* A one- or two-semester course for prospective teachers of secondary school physics. (Physics 411a, 411b)
- 412b *Health Education* (seminar). (Bacteriology 412b)
- [413a or 413b *Teachers' Course.* (Spanish 413a or 413b)]
- 414a *Teachers' Course.* (Theatre and Speech 414a)
- 414b *Oral Interpretation of Children's Literature.* Open to juniors. (Theatre and Speech 414b)
- 415a, b *Art Education.* Theory and practice of art education in the elementary school. By permission of the instructor. Recommended background, Art 13. T 7:30. Mrs Jules.
- 416b *Music Education.* Theory and practice of music education in the preschool and elementary grades. For majors or by permission of the instructor. M 7:30. Mr Contino.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies: special problems in education *Two or three hours each semester.*
- 52a *Problems of American Education.* Required of all candidates for the Master's degree in education and the M.A.T. degree. T 4. Mr Bragdon.
- 54b *Problems of Preschool and Elementary Education.* T 4. Miss Rees.
- 55b *Secondary Education.* T 4. Mr Bragdon.
- 56b *Higher Education.* History and present status in the United States. *One or more hours.* Mr Peterson.

EDUCATION & CHILD STUDY

57 *Problems in the Education of the Deaf.* Historical development of education of the deaf, the physiological and psychological problems of deaf children, and problems of curriculum, with emphasis on language. By permission of the instructor. Mr Pratt.

59a, 59b *Practice Teaching.* Given under the supervision of members of the Department. For qualified graduate students by permission of the Department.

510a *Child Development.* T 4. Miss Rees.

Adviser of graduate study: Mr Bragdon.

THE MAJOR

Students majoring in the Department may prepare for preschool or elementary-school teaching or for graduate work leading to an advanced degree. Students who intend to teach in secondary school are advised to major in the field in which they expect to teach and to take a few basic courses in education.

Advisers: Miss Rees, Mr Bragdon.

Based on 21a or 22a or b *and* one course in education and child study, psychology, sociology, or Social Science 192.

Essential Courses: 40a and eighteen semester hours in education.

Optional Courses: other courses appropriately related.

HONORS

Director: Miss Rees.

Prerequisites: courses listed as bases for the majors.

Program and Examinations: detailed plans of study may be had on consultation with the director.

ENGLISH LANGUAGE & LITERATURE

PROFESSORS:	CHARLES JARVIS HILL, PH.D. HELEN WHITCOMB RANDALL, PH.D. DANIEL AARON, PH.D. ALFRED YOUNG FISHER, DOCTEUR DE L'UNIVERSITÉ DE DIJON KATHERINE GEE HORNBEAK, PH.D. ELEANOR TERRY LINCOLN, PH.D., <i>Chairman</i> EDNA REES WILLIAMS, PH.D.
ASSOCIATE PROFESSORS:	ROBERT TORSTEN PETERSSON, PH.D. KENNETH AMOR CONNELLY, JR., PH.D. †WENDELL STACY JOHNSON, PH.D. RICHARD B. YOUNG, PH.D.
ASSISTANT PROFESSORS:	SYLVAN SCHENDLER, PH.D. WILLIAM HOOVER VAN VORIS, PH.D. †FRANK H. ELLIS, PH.D. ELIZABETH GALLAHER VON KLEMPERER, PH.D.
LECTURER:	†ANTHONY EVAN HECHT, A.M.
INSTRUCTORS:	JOAN MAXWELL BRAMWELL, M.A. LEWIS MERIWETHER DABNEY, A.M. FRANCIS E. X. MURPHY, PH.D. JACKIE MARIE PRITZEN, M.A. MARGARET L. SHOOK, M.A. HELEN SOOTIN SMITH, A.B. ROSS HUTCHESON DABNEY, A.B. SYBIL WULETICH, PH.D. ALICE ADAIR COOPER, A.B.

The courses in English which may be taken to fulfill the distribution requirement in Group A are 21, 25, 211, 212.

Grade 3 courses are open to sophomores who have completed three hours of work in Section A below or in General Literature 291.

Students who are planning a major in English are urged to take related courses in classics, history, philosophy, and religion.

- 11 *Freshman English.* Practice in expository and critical writing in connection with the study of selected literary texts. Members of the Department, Miss Randall (*Director*).

ENGLISH LANGUAGE & LITERATURE

A. Language and Literature

- 21 *The History of English Literature.* An analysis through lectures, reading, and discussion of representative authors and works, chosen for the purpose of illustrating the temper and the controlling ideas of successive periods from the earliest period to the present day. Lec. Th F 10; dis. F 12, S 10. Mr Hill, Miss Williams, first semester; Miss Hornbeak, Mrs von Klemperer, second semester.
- [25 *Literature of the Middle Ages.* Motifs and ideas in important works, including the *Consolation of Philosophy*, the *Nibelungenlied*, Irish folk tales, the *Song of Roland*, Arthurian romance, medieval lyrics, and the *Divine Comedy*. Reading based on translations.]
- 211 *Literature of the Nineteenth and Twentieth Centuries.* M T W 10. Miss Randall.
- 212 *American Literature to 1900.* Lec. M 9; dis. T W 9. Mr Aaron, Mr L. Dabney, Mr Murphy, Miss Wuletich.
- 30a *The Grounds of Literary Judgment.* Various approaches to the study of literature. This course is designed to provide a basis for the work of the major. Open only to juniors majoring in English. M T W 9, 11; Th F S 9, 10; W 3 and Th 2-4. Members of the Department. Mr Van Voris (*Director*).
- 30b A repetition of 30a. Open to a limited number of sophomores and juniors by permission of the chairman of the Department. Th F S 10.
- 31a *Chaucer.* A study of his art and of his social and literary background. Emphasis on the *Canterbury Tales*. M T W 10. Miss Williams.
- 31b *Chaucer.* Repetition of 31a. M T W 3.
- 32b *Medieval Literature.* A study of Chaucer's *Troilus and Criseyde* and of his minor poems; selected reading from other works of the period. Prerequisite, 31a or 31b. M T W 10. Miss Williams.
- 33a *The English Language.* Main historical developments from the beginning to 1400, illustrated from readings in each period. Studies in literary interpretation and style. M T W 9. Miss Williams.
- 33b *The English Language.* Continuation of 33a from 1400 to the present. Prerequisite, 33a. M T W 9. Miss Williams.
- [34a *Old English.* A survey of language and literature before 1066, with reading of prose and poetry, both in the original and in translation. W Th F 2. Miss Williams.]
- [34b *Old English.* A study of *Beowulf*. W Th F 2. Miss Williams.]

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- 35b *Sixteenth-Century Literature.* Prose and poetry from Wyatt through the poems of Shakespeare, studied in the light of ideas and forms characteristic of the Renaissance. M T W 3. Mr Young.
- 36a *Shakespeare:* Romeo and Juliet, I Henry IV, As You Like It, Troilus and Cressida, King Lear, Antony and Cleopatra, The Tempest. Th F S 12. Mr Fisher.
- 36b *Shakespeare:* Richard II, Hamlet, Othello, Much Ado about Nothing, Measure for Measure, Coriolanus, The Winter's Tale. M T W 12. Mr Hill.
- 38a *Seventeenth-Century Prose.* The Baroque and the Classical. Readings from the Bible, Bacon, Browne, Milton, Bunyan, and especially Donne. M T W 10. Mr Petersson.
- 39a *Seventeenth-Century Poetry from Donne to Dryden.* Discussion of the Petrarchan convention, metaphysical imagery, Platonism, Christian-Humanism, and related topics. Th F S 9. Miss Lincoln.
- 39b *Milton.* The major and minor poems with attention to current problems in interpretation and criticism. Th F S 9. Miss Lincoln.
- 310a *Augustan Satire.* Theories and techniques of satire studied in the work of Dryden, Addison, Steele, Pope, Swift, and Gay. M T W 12. Miss Hornbeak.
- 310b *The Age of Johnson.* Biography, essay, criticism, poetry. M T W 12. Miss Hornbeak.
- 311b *Restoration and Eighteenth-Century Drama, 1650-1800.* A close study of the backgrounds, modes of production, and texts of significant plays. M T W 2. Mr Van Voris.
- 314a *The English Novel.* Defoe to Jane Austen. M T W 11. Mr Hill.
- 314b *The English Novel.* Dickens to E. M. Forster. M T W 11. Mr Hill.
- 315b *Romanticism.* Blake, Wordsworth, Coleridge, Shelley, and Keats studied in relation to the romantic movement in England. M 4, T 4-6. Miss Randall.
- [317b *Victorian Prose and Poetry.* Theme and technique in the prose of Carlyle, Mill, Newman, Arnold, and Ruskin, and the poetry of Tennyson, Browning, Arnold, the Rossettis, Swinburne, and Hopkins. Th F S 11. Mr Johnson.]
- 318a *Twentieth-Century British Literature.* Joyce, Yeats, Eliot. Open only to juniors and seniors. Th F S 10. Mr Connelly.

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- 321a *Transcendentalism in American Literature.* Emerson, Thoreau, and Whitman. Not open to students who have taken or are taking 212. Alternates with 322a. M T W 11. Mr Aaron.
- 321b *Hawthorne, Poe, and Melville.* Not open to students who have taken or are taking 212. Alternates with 322b. M T W 11. Mr Aaron.
- [322a *American Literature from the Civil War to the End of the Nineteenth Century.* Alternates with 321a. M T W 9. Mr Aaron.]
- [322b *American Literature from the Beginning of the Twentieth Century to the Present.* Alternates with 321b. M T W 9. Mr Aaron.]
- 323b *Idea and Form in Twentieth-Century Fiction.* Open only to juniors and seniors. Th F S 10. Mr Connelly.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in English above Grade I. *Two or three hours.*

Undergraduate Seminars

Open to seniors and juniors by permission of the instructor. Limited to twelve students.

- 412b *The Pastoral Tradition.* Primitive, classical, religious, philosophical, and political adaptations of pastoral themes and conventions in lyric poetry, romance, elegy, allegory, the drama, and satire. Th 4-6. Miss Lincoln.
- 413a *English Drama from 1550-1642.* Shakespeare's predecessors and contemporaries. W 7:30-9:30. Mr Fisher.
- 414a *Biography, Memoirs, Journals, and Letters of the Eighteenth Century.* A study of these types with emphasis on literary values and the reflection of personality, contemporary ideas, and social background. Selected topics based on the writing of such representative figures as Swift, Lady Mary Wortley Montagu, Johnson, Boswell, Walpole, Chesterfield, Gibbon, Gray, Cowper, Mrs Thrale, Fanny Burney, Wesley. Th 7:30-9:30. Miss Hornbeak.
- [415b *Literary Criticism from Dryden to the Present.* A study of neo-classical, romantic, and contemporary criticism.]

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- 416a *The Comic*. Theories of humor; comedy of situation, character, language; great comic figures. Examples of comedy in verse, prose, and drama, drawn primarily from English literature. Th 4-6. Mrs von Klemperer.
- 416b *Tragedy*. Tragic form and tragic vision. Theory and practice mainly from the Elizabethan period to the present. T 7:30-9:30. Mr Petersson.
- [417a *Major Figures in American Literature of the Nineteenth Century*.]
- 418b *American Literary Movements, 1900-1920*. Developments in fiction, poetry, drama, and criticism. T 7:30-9:30. Mr Aaron.
- 419a *Poetics*. A close study of selected poems from the early sixteenth century to the present day, in relation to technique, value, and style. Th 4-6. Mr Connelly.
- [420b *Preromanticism*. Romantic tendencies in the eighteenth century: sentiment and sensibility; the rediscovery of nature; primitivism and progress; varieties of liberalism; represented in the works of such writers as Steele, Pope, Thomson, Gray, Collins, Goldsmith, Cowper, Crabbe, Burns, and others. Th 3-5. Mr Ellis.]
- [421a *Religious Poetry*. Devotional verse and the religious lyric in English literature, with reference especially to the fourteenth century, the seventeenth century, the Victorian, and the modern periods. M 7:30-9:30. Mr Johnson.]
- 422b *James Joyce*. The early works will be studied as a prologue, and a sampling of *Finnegans Wake* as an epilogue, to an intensive examination of Ulysses. W 7:30-9:30. Mr Fisher.

B. Composition

Only one course in English composition may be taken in any one semester except by permission of the chairman. Second semester courses are open both to students who have and to those who have not taken the corresponding course in the first semester.

- 220a, 220b *Practice in Various Forms of Writing*. M T W 11. Mrs Bramwell (*Director*), Mr Van Voris.
- 347a, 347b *Short Story Writing*. Though the emphasis in this course will be on fiction, opportunity will be given for other kinds of writing. By permission of the instructor. M 4-5:30 and an hour and a half to be arranged. Mr L. Dabney.

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[428a, 428b *Advanced Composition*. Practice in the writing of fiction. For seniors by permission of the instructor.]

C. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*

[53a *Seminar in Middle English Poetry*. Emphasis will be placed on the works of Chaucer, medieval romances, or medieval drama, according to the special needs of the students. Attention will be given not so much to the reading of texts as to problems of research.]

[55 *Shakespeare*. Critical problems, textual and literary. Lectures and reports.]

[57a *Studies in Seventeenth-Century Literature*.]

[58a *Studies in Eighteenth-Century Literature*. Miss Hornbeak.]

[59a, 59b *Studies in Nineteenth-Century Poetry*.]

[510b *Studies in Nineteenth-Century Fiction*.]

[512a *Studies in American Literature*.]

Inquiries concerning graduate work should be directed to the Chairman of the Department.

THE MAJOR

Advisers: Mr Fisher, Miss Hornbeak, Miss Williams, Mr Connelly, Mr Schendler, Mr Van Voris, Mrs von Klemperer.

Based on six semester hours from Section A above or General Literature 291.

Essential Courses: 30a (to be taken in the junior year), 31a or b, 36a or b.

Three hours chosen from: 35b, 38a, 39a or b, 413a.

Three hours chosen from: 310a or b, 311b, 314a, 414a, 420b.

Nine additional hours from Division A.

Optional Courses: six semester hours in English or foreign literatures or in closely allied fields.

Students majoring in English will be required to pass a general examination at the end of the senior year.

ENGLISH LANGUAGE & LITERATURE

HONORS

Directors: Mr Petersson (1962), Mr Hill (1963).

Prerequisites: see the requirements for entrance to the major.

Program: students must fulfill the general requirements of the major. Exceptions to the general rule that honors students must fulfill the distribution requirements of the English major may be made with the approval of the directors. Candidates must take at least one unit each year in the junior and senior years.

In the first semester of senior year honors students will present a long paper to count for three hours, outside the twenty-one semester hours in the major.

Three examinations are given. The first is on major figures and the second on general topics. The third requires a close critical analysis of particular works and passages.

Units

First semester

Studies in American Literature (exclusive of fiction). *Three hours.* M 7:30-9:30. Mr Aaron.

Shakespeare. *Six hours.* M 2-4. Mr Young.

Spenser and Milton. *Six hours.* Th 4-6. Miss Lincoln.

Blake. *Three hours.* Th 3-5. Miss Randall.

Aesthetics (Department of Philosophy). This unit is open to a limited number of students in English. *Six hours.* M 4-6. Miss Walsh.

Second semester

Medieval Literature. *Six hours.* Th 2-4. Miss Williams.

Satire. *Six hours.* Th 7:30-9:30. Miss Hornbeak.

Selected Novelists of the Eighteenth and Nineteenth Centuries. *Six hours.* Th 7:30-9:30. Mr Hill.

Modern British and American Poetry. *Six hours.* M 7:30-9:30. Mr Murphy.

The Twentieth-Century American Novel. *Six hours.* Mr Schendler.

FRENCH LANGUAGE & LITERATURE

PROFESSORS:	VINCENT GUILLOTON, AGRÉGÉ DE L'UNIVERSITÉ HÉLÈNE CATTANÈS, DOCTEUR DE L'UNIVERSITÉ DE PARIS MARINE LELAND, PH.D., LITT.D. (HON.) A. JEANNE SALEIL, AGRÉGÉE DE L'UNIVERSITÉ JEAN COLLIGNON, AGRÉGÉ DE L'UNIVERSITÉ, <i>Chairman</i> JULIEN SERGE DOUBROVSKY, AGRÉGÉ DE L'UNIVERSITÉ
ASSOCIATE PROFESSOR:	
VISITING ASSOCIATE	
PROFESSOR:	JEAN ARISTIDE LAMBERT, DIPLÔME D'ÉTUDES SUPÉRIEURES
ASSISTANT PROFESSORS:	ANNE GASOOL, A.M. WILLIAM CURTIS MEAD, PH.D. GEORGE TREMBLEY, LIC. ÈS L., PH.D. THOMAS CASSIRER, PH.D. JOSEPHINE LOUISE OTT, M.A. MARYSE MALAVELLE, AGRÉGÉE DE L'UNIVERSITÉ JOHN BUTEAU, A.M.
LECTURER:	ROSE ABENDSTERN, M.A.
INSTRUCTORS:	WARREN DAVID NOAKES, A.M. MIREILLE AZIBERT, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES JEANNE GRILLET, LIC. ÈS L. KEITH HARVIE MACFARLANE, B.A. †MARIE-JOSÉ MADELEINE DELAGE, LIC. ÈS L., DIPLÔME D'ÉTUDES SUPÉRIEURES MIREILLE JANINE BLANC, BACCALAURÉAT FRANÇOISE MARIE-THÉRÈSE GENTY, LIC. ÈS L.

The courses in French which may be taken to fulfill the distribution requirement in Group A are 26 or any courses in French literature of Grade III.

All classes in the Department except 312a are conducted in French.

Freshmen who plan to major in French or who hope to spend the junior year in Paris or in Geneva are advised to take 13 or 22a and b.

It is recommended that students planning to major in French have a reading knowledge of a second language (ancient or modern) and take a general course in English literature and one in European history. Students planning to spend their junior year in Paris are urged to take Art 11 in their freshman or sophomore year.

A. Language

11d *Elementary Course* (first and second parts). *Six hours each semester.* M T W Th F 10, 11, or M T W 3 Th F 2, and Th 4. Members of the Department. (L)

FRENCH LANGUAGE & LITERATURE

- 12 *Elementary Course* (second part). Prerequisite, two units in French. M T W 10, 11, 12; Th F S 10, 11, 12. Members of the Department.
- 13 *Reading, Grammar, and Composition*. Prerequisite, three units in French, 12, or 11D. M T W 9, 12; Th F S 11. Members of the Department.
- 22a, 22b *Intermediate Course*. Study of modern texts from the point of view of language. Written and oral reports. Prerequisite, four units in French, 13, or 16. Prerequisite for 22b, 22a, or permission of the Chairman. M T W 10, 11; Th F S 9, 10. Members of the Department.
- 24a *Theoretical and Practical Phonetics*. Exercises in hearing, pronunciation, and phonetic dictation. Open to freshmen. Two class hours. *One hour*. M T 5. Mr Trembley.
- 24b A repetition of 24a. M T 5. Mr Trembley.
- 31a *Advanced Course in Composition*. Students majoring in French may be urged to repeat this course if they do not spend the junior year in France. Recommended to those who intend to teach French. Prerequisite, 22a and b, or by permission of the instructor. W Th F 2. Mr Lambert.
- 410a *Teachers' Course*. Problems and methods of modern language teaching in the elementary and secondary schools. Practice teaching at these levels in the Northampton schools. Permission of the instructor. T 7-9. Mr Buteau.
- 410b A continuation of 410a. Prerequisite, 410a, or by permission of the instructor. W 7-9. Mr Buteau.

B. Literature

Unless otherwise stated the prerequisite for courses of Grade III is 26.

- 15 *Introduction to French Literature*. Choice of representative texts from the Middle Ages to the present day. Literary, historical, and cultural background. The written work is in English. Prerequisite, three units in French, 12, or 11D. Lec. Th 5; Sect. M T W 9; Th F S 9, 10, 11. Members of the Department. (L)
- 16 *Introduction to French Literature*. This course is of the same grade and plan as 15 but the written work is in French. Recommended, instead of 15, for students planning to continue the study of French. Prerequisite, three units in French, 12, or 11D. Lec. Th 5; Sect. M T W 9, 10, 11, 12; Th F S 9, 10. Members of the Department. (L)

FRENCH LANGUAGE & LITERATURE

- 26 *Masterpieces of French Literature of the Seventeenth Century.* Representative authors and literary movements of the seventeenth century. Prose, poetry, theatre. Prerequisite, four units in French, 13, 16, or by permission. M T W 9, 10, 11, 12; Th F S 9, 10, 11, 12. Members of the Department. (L)
- 310b *Life and Works of Molière.* Open to sophomores by permission of the instructor. W Th F 2. Miss Leland.
- 311 *French Literature of the Seventeenth Century.* Open to sophomores. Th F S 9. Mr Guilloton, Mr Lambert.
- 312a *French-Canadian Civilization from 1763 to the Present.* Conducted in English. No prerequisite; recommended background, a reading knowledge of French. Open to sophomores. W Th F 2. Miss Leland.
- 314b *French Literature of the Eighteenth Century.* Open to sophomores. Th F S 10. Mr Mead.
- 316a *French Literature to the End of the Renaissance.* Open to sophomores. Th F S 10. Mr Collignon.
- 318a *Contemporary French Drama and Poetry.* Recommended background, 311. Th F S 11. Mr Doubrovsky.
- 318b *Contemporary French Novel.* Recommended background, 311. Th F S 11. Miss Saleil.
- 320a *The French Novel from 1850 to 1914.* Open to sophomores. M T W 12. Miss Cattànès.
- 323b *Modern France.* Social and cultural trends. M T W 11. Miss Malavelle.
- 40b *Directed Readings for Correlation of the Major Field.* Th 4-6. Mr Collignon.
- 41, 41a, 41b *Special Studies in language or literature.* By permission of the Department for senior majors who have had twelve semester hours above Grade I in French. *Two or three hours.*
- 45a *History of Modern French Thought.* The Renaissance to the present. For seniors by permission of the instructor. Th 4-6. Mr Doubrovsky.
- [47a *Studies in Eighteenth-Century Literature.* Alternates with 48a. For seniors by permission of the instructor.]
- 48a *Studies in Nineteenth-Century Literature: Balzac.* Alternates with 47a. For seniors by permission of the instructor. Mr Lambert.

FRENCH LANGUAGE & LITERATURE

C. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged in consultation with the Department. *One hour or more.*

[52 *Old French.* Linguistics and literature. Miss Leland.]

53 *Problems of Modern Syntax.* Miss Cattànès.

56a *Development of Literary Criticism in France.* Mr Guilloton.

56b *Literary Relations between England and France in the Eighteenth Century.* Mr Guilloton.

58b *Montaigne.* *One hour or more.*

510b *French Poetry from 1885 to the Present.*

Adviser of graduate study: Mr Trembley.

THE MAJOR

Advisers: Class of 1962, Miss Cattànès; Class of 1963, Miss Leland.

Based on 26; on 16 or 13 if 26 is taken junior year in addition to the major.

Essential Courses: 40b and twenty-one semester hours in French.

Optional Courses: other courses in the Department or in allied fields.

HONORS

Director: Miss Cattànès.

Prerequisite: 26.

Program:

Requirements: the general requirements for the major; a unit involving the writing of a paper; a review unit.

Optional: with the approval of the director any unit or course in French or in an allied field of Grade III or IV, or, for seniors, Grade V.

Examinations: of the three examinations, the two on literature will be written in English. One general examination on the whole field of French literature; one specialized examination on a limited period (sixteenth, seventeenth, eighteenth, or nineteenth century, or the modern field); one on language with translation from English to French, from French to English, and a short composition in French.

GEOLOGY & GEOGRAPHY

ASSOCIATE PROFESSORS:	ROBERT FRANK COLLINS, A.M. *CAROLINE HEMINWAY KIERSTEAD, PH.D. MARSHALL SCHALK, PH.D., <i>Chairman</i> HELEN STOBBE, PH.D.
TEACHING FELLOWS:	NANCY ATHERTON CASE, A.B. JANE ELIZEABETH GALLEN, B.S.

Geology 11 may be taken to fulfill the distribution requirement in Division III.

Students planning to major or to do honors work in geology are required to take six semester hours in at least one of the following: chemistry, mathematics, physics, or zoology.

- 11 *General Geology*. Forces of nature now modifying the materials and structure of the earth; history of the earth. Field trips. Two lectures and two and one-half hours of laboratory. Lec. Th F 10. Lab. T 9, M T Th F 2. Mr Collins, Mr Schalk, Mrs Case, Miss Gallen.
- 21a, 21b *Introductory Meteorology*. The weather elements; their observation; air mass analysis; short-term and aeronautical forecasting; climatology. Prerequisite for 21b, 21a. Two lectures and one demonstration. Mr Schalk.
- 213b *Geography of North America*. Regional characteristics of North America exclusive of Mexico. M T W 12. Mrs Kierstead.
- 31a *Geography of Asia*. Influence of relief, climate, and natural resources on the life, movements, and history of its peoples. M T W 10. Miss Stobbe.
- 31b *Europe and North Africa*. Geographic backgrounds of current problems. M T W 10. Miss Stobbe.
- 32a *South America*. Geography of the continent; climatic and physiographic backgrounds of cultural, political, and economic development. M T W 12. Miss Stobbe.
- 33 *Land Surfaces of the United States*. Physiographic foundations of American regional, economic, and social culture. Systematic description of physical divisions of the United States. Geomorphic processes and principles. Th F 11 and one hour to be arranged. Mr Collins.
- [34a] 34b *Economic Geology*. Lectures and laboratory study of geological products of commercial value. Prerequisite, 11, or 324a, or Chemistry 11. Lec. M T 12; lab. hours to be arranged. Miss Stobbe.

GEOLOGY & GEOGRAPHY

- 36a [36b] *Field Geology*. Methods; theory and use of Brunton, alidade, and other mapping instruments; topographic and geologic surveying; applied structural geology. Prerequisite for 36a, 11; for 36b, 36a. Given in alternate years. M T 12 T 2-6. Mrs Kierstead, Mr Schalk.
- 37b *Stratigraphy*. Stratigraphic methods and techniques; geological systems and subdivisions. Prerequisite, 11. Two lectures and two and one-half hours of laboratory. Mrs Kierstead.
- 38a *Optical Mineralogy*. Optical properties and identification of minerals in fragments and thin sections. Prerequisite, 325b. Miss Stobbe.
- 39b *Petrography*. Identification and classification of rocks with the polarizing microscope. Prerequisite, 38a. Miss Stobbe.
- 314b *Geology of Petroleum and Natural Gas*. Their origin, occurrence, and distribution; application of geological principles to their finding and exploitation. Prerequisite, 11, or permission of the instructor. Mr Schalk.
- [322a *Structural Geology*. The study and interpretation of rock structures; their origin, topographic effect, and economic importance. Open to students who have passed 11. Lec. Th F 12; lab. T 2-5. Mrs Kierstead.]
- [323a] 323b *Paleontology*. Marine invertebrate fossils and their significance in interpreting the history, climate, and geography of the past. Open to students who have passed 11, Zoology 11, or Biological Science 195. Two-day field trip in second semester. Lec. Th F 10; lab. F 2-5. Mrs Kierstead.
- 324a *Mineralogy*. General principles; study of the more important rock-forming, economic, and gem minerals. For students who have passed or are taking 11, Chemistry 11, Physics 11, or Physical Science 193. Lec. and dis. M T 11; lab. M 2-4:30. Miss Stobbe.
- 325b *Lithology*. Interrelation of the main rock types; their origin, structure, mineral composition, occurrence, and economic importance. Field methods of identification. Prerequisite, 324a. Lec. and dis. M T 11; lab. T 2-4:30. Miss Stobbe.
- 328a *Principles of Cartographic Drafting, Editing, Reproduction*. Practice in map reading, compilation and simple map drafting. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.
- 329b *Geologic and Geographic Illustration*. Charts, graphs, block diagrams, sections. Drawing for reproduction. Lec. Th F 12; lab. three hours to be arranged. Mr Collins.

GEOLOGY & GEOGRAPHY

- 40b Senior Review Essay. For seniors majoring in geology or geography. M 2-5. Members of the Department.
- 41, 41a, 41b Special Studies in geology or geography. By permission of the Department for senior majors who have had twelve semester hours above Grade I in the Department. Members of the Department. *Two or three hours.*
- [46a, 46b *Micropaleontology*. A study of micropaleontology with particular emphasis on Foraminifera, their classification and importance in petroleum geology. Lec. T W 11; lab. T 2-5. Mrs Kierstead.]
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Individual problems in geology or geography. *Two hours or more.*
- [52, 52a, 52b *Paleontology or Stratigraphy*. *Two hours or more.* Mrs Kierstead.]
- 53, 53a, 53b *Physiography*. *Two hours or more.* Mr Collins.
- [54, 54a, 54b *Structural Geology*. *Two hours or more.* Mrs Kierstead.]
- 55, 55a, 55b *Crystallography, Mineralogy, Petrology, or Gemology*. *Two hours or more.* Miss Stobbe.
- 57, 57a, 57b *Petroleum Geology*. *Two hours or more.* Mr Schalk.
- Adviser of graduate study: Mr Schalk.

THE MAJORS

GEOLOGY

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11.

Essential Courses: 36a and b, 322a, 323a, 324a, 325b, 40b, and six hours in chemistry, mathematics, physics, or zoology.

Optional Courses: other courses in geology or in other sciences.

GEOGRAPHY

Advisers: Mr Collins, Mrs Kierstead, Miss Stobbe.

Based on 11, 213b, 21a.

Essential Courses: 11 if not already taken; 40b and twelve semester hours above Grade II in the Department.

Optional Courses: other courses in geology; courses in other sciences, history, and economics.

GERMANIC LANGUAGES & LITERATURES

HONORS IN GEOLOGY

Director: Mr Schalk.

Prerequisites: 11, and 323a and 323b *or* 324a and 325b; and one year of college chemistry, physics, or zoology.

Program:

Requirements: 323a and 323b *or* 324a and 325b (whichever has not been taken previously); 33, 36a and 36b; and six additional hours of Grade III or above in geology *or* six hours in an advanced course of a science other than geology.

Examinations: two will be in the general field of the major; a third may be in a field of concentration.

GERMANIC LANGUAGES & LITERATURES

PROFESSORS:	PAUL GERALD GRAHAM, PH.D., <i>Chairman</i> †MARIE SCHNIEDERS, PH.D.
ASSISTANT PROFESSORS:	MARION WILMA H. SONNENFELD, PH.D. §§REINHARD ADOLF LETTAU, PH.D.
INSTRUCTOR:	HORST WEISE. M.A.
ASSISTANTS:	MARIANNE G. REINEL CHARLOTTE G. DABNEY
FACULTY FELLOW:	SARA BENNETT MACK, A.B.

The courses in German which may be taken to fulfill the distribution requirement in Group A are 25a and b, 26, 27a and b.

Students who possess a thorough knowledge of German considerably in excess of what their preparatory school work indicates, may be assigned to more advanced classes. They should consult the chairman of the Department.

Students planning to major in German should carry work in German in the first two years. A course in European history and a course in philosophy are also recommended.

Those who need a knowledge of German for use in the sciences will be advised about appropriate reading in the various German courses.

A. German Language

- 11 *Elementary Course.* Five class hours. *Three hours each semester.* M T 9, Th F 9, and three hours to be arranged. (A special section for seniors only will be given M T W 12.) Miss Sonnenfeld (*Director*), and members of the Department.

GERMANIC LANGUAGES & LITERATURES

- 11D *Elementary Course* (covering the work of two years). Seven class hours. Six hours each semester. M T W Th F 10 and two hours to be arranged. Mr Weise. (L)
- 12 *Intermediate Course*. Prerequisite, two units in German or 11. M T W 11, 3, Th F S 11, one additional hour to be arranged in place of some preparation. Miss Sonnenfeld (*Director*) and Members of the Department. (L)
- 21a, 21b *Composition and Conversation*. Prerequisite, three units in German, 11D, 12, or the equivalent. T Th 2, and one hour to be arranged. Mr Weise.
- [31a *Advanced German Composition*. Intensive practice in free composition and translation. Prerequisite, 21a and 21b, or permission of the instructor.]
- [31b Repetition of 31a.]

B. German Literature

The prerequisite for courses of Grade III is a Grade II course or the equivalent.

- 25a, 25b *Modern Prose*. The *Novelle* of the nineteenth and twentieth centuries. Prerequisite, three units in German, 11D, 12 or the equivalent. Miss Sonnenfeld. (L)
- 26 *An Introduction to the Classical Literature of the Eighteenth Century*. Selections from the works of Lessing, Goethe, and Schiller. Prerequisite, three units in German, 11D, 12, or the equivalent. M T W 10. Mr Graham. (L)
- 34a, 34b *German Literature of the Nineteenth Century*. Beginning with the romantic movement. Mr Graham.
- 35a *An Historical Survey of German Literature*. The earliest times to the middle of the eighteenth century. Miss Sonnenfeld.
- 38b *Masters of Modern German Literature*. Selected works of representative writers since 1890. Mr Weise.
- 331a *Goethe: His Life and Works*. Mr Weise.
- 311b *Goethe's Faust, Parts I and II*. Miss Sonnenfeld.
- 40b Directed reading required of seniors majoring in the Department.
- 41, 41a, 41b Special Studies arranged in consultation with the Department. By permission of the Department for senior majors who have had twelve semester hours above Grade I in German. Two or three hours.

C. German Literature in Translation

- [27a *The German Novel*. From Goethe to Thomas Mann. Th F S 10. Members of the Department.]

GERMANIC LANGUAGES & LITERATURES

[27b *The German Drama.* From Lessing to Bert Brecht. Members of the Department.]

D. Germanic Philology

[42a *Historical Survey of the German Language.* Miss Schnieders.]

E. Graduate Courses

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Special Studies in the fields of literature and linguistics arranged in consultation with the Department. *One hour or more.*

Adviser of graduate study: Mr Graham.

THE MAJOR

Adviser: Miss Sonnenfeld.

Based on 11D or 12.

Essential Courses: 21a and 21b, 35a, 40b, and nine semester hours of other German courses above Grade II.

Optional Courses: courses in German except 27a and 27b, in literature, history, or philosophy.

HONORS

Director: Miss Sonnenfeld.

Prerequisites: 21a and 21b, 26, or the equivalent.

Program: a minimum of forty-eight semester hours.

Requirements: a minimum of twenty-four semester hours in the Department; twelve hours in related fields; three or six in first semester of senior year on the preparation of a paper; three in second semester on directed reading.

Examinations: an examination on the general field; one on a specialized field; and an analytical examination which may include such topics as problems of analysis, criticism, and style, translation from German into English and from English into German, a composition in German.

Units

The Department will offer units in the fields of linguistics, literature, and language for honors students in German or for honors students in other departments who have had a Grade II course in German. In addition, units conducted in English will be offered for honors students in other departments who have had no German.

GOVERNMENT

PROFESSORS:	GWENDOLEN MARGARET CARTER, PH.D. CECELIA MARIE KENYON, PH.D.
ASSOCIATE PROFESSORS:	§ALAN BURR OVERSTREET, PH.D. LEO WEINSTEIN, PH.D., <i>Chairman</i>
ASSISTANT PROFESSORS:	†GUENTER LEWY, PH.D. STANLEY ROTHMAN, PH.D. KENNETH GEORGE OLSON, M.A. CHARLES LANGNER ROBERTSON, PH.D. JOHN POWERS MALLAN, A.M. PETER NILES ROWE, PH.D.
INSTRUCTOR:	ROBERT BRUCE CARROLL, M.P.A.

The distribution requirement in Group E may be fulfilled by any year course or by any two semester courses in the same section, or by Social Science 192.

For students planning to major or to do honors work in the Department, History 11, Economics 21, and Sociology 11a and b are suggested. See also the honors program.

Grade III courses are open to sophomores with the permission of the instructor.

Seminars, Grade IV courses, require the permission of the instructor and ordinarily presume as a prerequisite a Grade II or III course in the same section.

11 *Introduction to Political Science.* A study of the leading ideas of the Western political tradition and their application to the analysis of contemporary political systems. For freshmen and sophomores only; not open to students who have taken Social Science 192. Two lectures and one discussion. Lec. M T 12. Dis. W 9, 12, 2; Th 9, 12; F 11. Mr Weinstein, Miss Carter, and other members of the Department.

11a The first semester of 11 for sophomores who have passed Social Science 192. Hours and instructors as in 11.

A. American Government

21 *American Government.* The processes and functions of American government in the light of the principal concepts of American democracy. Not open to students who have taken or are taking a Grade III course in this section, or 324b. M T W 10. Mr Mallan.

GOVERNMENT

- 31a *American Constitutional Development.* The origins and framing of the Constitution; contemporary interpretations; the study of Supreme Court decisions, documents, and other writings dealing with the interpretation of the Constitution, with emphasis upon changing ideas concerning federalism and separation of powers. M T W 11. Mr Carroll.
- 31b *American Constitutional Law.* Powers of the national government and fundamental rights of citizens as interpreted by decisions of the Supreme Court. M T W 11. Mr Weinstein.
- 32a *American Political Parties.* Their structure, operation, and place in the American system of government. Field study and participation in a political campaign. M T W 3. Mr Olson.
- 32b *Congress and the Legislative Process.* An analysis of the legislative process in the United States, focused upon the contemporary role of Congress in its relations with the Presidency, the federal bureaucracy, and pressure groups. M T W 3. Mr Olson.
- [33a *Public Administration.* Political aspects of government regulations, with emphasis on transportation, public utilities, housing, and atomic energy development.]
- 33b *Administration and Policy Development.* The bureaucracy: administrative officials and the determination of public policy, with emphasis on the problem of securing responsible government through Congressional supervision, judicial review, and Presidential control. M T W 2. Mr Carroll.
- 34a *City Government and Politics.* Political implications of urbanization, structure and process of municipal government, urban redevelopment and planning. M T W 11. Mr Mallan.
- 42a, 42b *Seminar in American Government.* Mr Carroll, Mr Weinstein.
- 43b *Seminar in Public Opinion and Pressure Groups.* Mr Olson.

B. Comparative Government

- 36 *European Government.* The dynamics of political decision making in the Soviet Union, England, France and Germany. The emphasis will be upon comparative analysis and the contrast between democratic and totalitarian régimes. M T W 9. Mr Rothman.
- 38b *The Commonwealth of Nations.* Its development and organization, and a study of political ideas and institutions in Canada, Australia, New Zealand, South Africa, India, Pakistan, Ceylon, and Ghana. T 3-5:30. Miss Carter.

GOVERNMENT

- 47a *Seminar in Comparative Government.* Mr Rothman.
- 48b *Seminar on Comparative African Government.* An analysis of recent constitutional and political developments in South Africa, the Federation of Rhodesia and Nyasaland, and Kenya. Prerequisite, a course on Africa south of the Sahara. M 3-5:30. Miss Carter.

C. International Relations

- 211a *International Relations.* The context, practices, and problems of international politics. Th F S 10. Mr Robertson.
- 311b *International Relations.* The role and function of international organization in international relations. Achievements and limitations of regional and universal organizations such as NATO and the UN. Th F S 10. Mr Robertson.
- 312a *International Law.* The function of law in the international community, with special reference to the relation of law, politics, and social change. M T W 2. Mr Rowe.
- [322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]
- [322b *Foreign Policy of the United States since 1898.*]
- 324a *Foreign Policy of the United States since 1898.* Emergence of the United States as a world power, responses to new post-war problems and the relation between governmental organization and policy development. M T W 10. Mr Rowe.
- 324b *Foreign Policy of the United States.* An analytical treatment: the internal organization and political setting of United States foreign policy formulation and control. The nature of problems facing American decision-makers today. M T W 10. Mr Rowe.
- 411a, 411b *Seminar in International Politics.* Mr Robertson, Mr Rowe.

D. Political Theory

- 326 *History of Political Thought from Plato to the Present.* Greek political philosophy, the stoics, medieval theory, rise of the nation-state, and modern liberal, democratic, and totalitarian thought. Designed to provide a foundation for the understanding of current political problems. Th F S 11. Miss Kenyon.
- 327b *American Political Thought.* The evolution of the principles and practice of liberal democracy. American ideas concerning politics and government from the colonial period to the present. Th F S 10. Miss Kenyon.

GOVERNMENT

[423a *Seminar in American Political Thought*. Miss Kenyon.]

424b *Seminar in Contemporary Political Thought*. Miss Kenyon.

40b Directed reading required of seniors majoring in the Department. Director: Mr Robertson. Members of the Department.

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in government. *Two or three hours*.

HISTORY, AND SOCIAL SCIENCE 495b *Interdepartmental Seminar in Economics, Government, History and Sociology*. The Military and Society. A comparative and historical study of the relationship between the armed forces and the social and political order in the United States, Europe, and Latin America. Social composition and ideology of the military, its social and political role, the problem of civilian control. Historical, economic, ideological, and political forces affecting conceptions of military strategy. Mr Chinoy, Mr Rothman.

[50, 50a, 50b Research and Thesis.]

51, 51a, 51b Advanced Studies. *Two or three hours*.

[55a, 55b Seminar.]

THE MAJOR

Advisers: Miss Carter, Miss Kenyon, Mr Rothman, Mr Robertson, Mr Rowe, Mr Weinstein, Mr Olson, Mr Carroll.

Based on 11 or Social Science 192 and Government 11a, or in exceptional circumstances on an advanced course approved by the chairman.

Essential Courses: 326, 40b, and twelve semester hours in government.

Optional Courses: nine semester hours selected from government and approved courses in history, economics, sociology, philosophy, or religion.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Years Abroad.

HONORS

Director: Mr Rowe.

Prerequisites: 11 and an introductory course in history, economics, or sociology; or Social Science 192 and Government 11a and one introductory course in history; or in exceptional circumstances an advanced course approved by the director.

Minimum requirement: (1) one unit or seminar in junior and in senior year; (2)

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the unit in political theory or 326; (3) a long paper counting for six hours in the first semester of senior year; (4) directed reading counting for three hours in second semester of senior year.

Examinations: comprehensive examinations consisting of a general examination in political science, one in political theory, and one in a special field other than theory.

Units

Political Theory. First semester. Miss Carter, Mr Weinstein.

Comparative Government. The year. Mr Rothman.

International Relations. The year. Mr Robertson.

American Politics. The year. Mr Olson.

HISTORY

PROFESSORS:

THOMAS CORWIN MENDENHALL, B.LITT., PH.D., LL.D.
(HON.)

LEONA CHRISTINE GABEL, PH.D.

MAX SALVADORI, DR.SC. (POL.), LITT.D. (HON.)

JEAN STRACHAN WILSON, PH.D.

KLEMENS VON KLEMPERER, PH.D., *Chairman*

†DONALD HENRY SHEEHAN, PH.D.

LECTURER:

SIDNEY RAYMOND PACKARD, PH.D., JUR.D. (HON.), L.H.D.

ASSOCIATE PROFESSORS:

CHARLES WHITMAN MACSHERRY, PH.D.

ARTHUR MANN, PH.D.

LOUIS COHN-HAFT, PH.D.

*NELLY SCHARGO HOYT, PH.D.

RAMÓN EDUARDO RUIZ, PH.D.

VISITING LECTURER:

²RICHARD MATEER DOUGLAS, PH.D.

ASSISTANT PROFESSORS:

†NINA G. GARSOIAN, PH.D.

SIDNEY MONAS, PH.D.

PETER D'ALROY JONES, M.A.

STANLEY MAURICE ELKINS, PH.D.

ALLAN MITCHELL, PH.D.

VISITING LECTURER:

ROBERT M. HADDAD, A.M.

INSTRUCTORS:

GERARD ERNEST CASPARY, A.M.

ANNA MARIA HERBERT ABERNATHY, A.M.

JOAN MARY AFFERICA, M.A.

¹LILLIAN BRENIG SILVER, M.A.

HELEN TYSON STOKES, A.M.

HISTORY

The prerequisite for all courses above Grade I is 11, 12, or 13. The distribution requirement in Group D may be met by any one of these courses. Exemption from this requirement will be granted to students who pass an examination administered by the Department at the beginning of freshman year. Qualified students who because of special circumstances have failed to take the history exemption examination and who may wish to fulfill the Group D requirement by taking courses of Grade II (including History and Social Science 293) should consult the chairman of the Department.

- 11 *General European History.* A survey of the history of Europe from the decline of the Roman Empire to the present. One lecture and two discussions. Lec. M 2; dis. T W 9, 11, 12, 2, 3; Th F 9, 10, 11, 12. Members of the Department. Mr MacSherry (*Director*), Mrs Abernathy (*Assistant Director*).
- 12 *The Ancient World.* A survey of Mediterranean civilizations to the fall of the Roman Empire. Two lectures and one discussion. Lec. M T 10; dis. W 9, 10, 3. Mr Cohn-Haft (*Director*), Miss King.
- 13 *History of the Americas.* A study of the Western Hemisphere from the age of discovery to the present: the European heritage Indian cultures, the growth of colonial societies, imperial rivalries, the emergence of independence movements, and the evolution of the United States, Canada, and the Latin-American nations in their world setting in the nineteenth and twentieth centuries. Lec. F S 9; dis. Th 9, 12. Mr Ruiz (*Director*). Mr Jones.
- [23b *The Ancient Near East.* Introduction to the history and modern study of the earliest civilizations of the Near East, from the Sumerians and the Old Kingdom in Egypt to the Persian Empire. Alternates with The Roman Republic unit. M T W 2. Mr Cohn-Haft.]
- 24a *Early English History to 1603.* M T W 11. Mr Caspary.
- 24b *English History since 1603.* M T W 11. Miss Wilson.
- [25a *Medieval France.* With major emphasis on the twelfth and thirteenth centuries. Open by permission of the instructor to students who have had 11 or 24a. Th F S 10. Mr Packard.]
- 29 *Development of Western Economic Society.* Introduction to the study of economic development in Europe and the United States, eighteenth century to the present. Emphasis on evolution of basic economic institutions and behavior in a capitalist society, and economic problems and solutions evolved by society. M T W 2. Mr Jones, first semester; Mr McCartney, second semester.
- 217a *History of Russia from the Kievan Period to 1825.* Th F S 10. Mr Monas.

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- 217b *History of Russia from 1825 to the Present.* Th F S 10. Miss Afferica.
- 30a *Introduction to Historical Thought.* A study of the nature of historical problems and of the development of historical thought, based on selected writings of great historians. This course is designed to provide a basis for the work of the major. For juniors majoring in history and for seniors returning from the junior year abroad. One lecture and one two-hour discussion. Lec. M 3; sections T 3-5; Th 3-5. Mr Mann (*Director*), Mr Caspary, Mr Mitchell, Mrs Abernathy, Miss Herbert, and other members of the Department.
- 33a *Classical Greece.* A study of Greek civilization at its height in the fifth and fourth centuries B.C. Open to sophomores by permission of the instructor. M T W 12. Mr Cohn-Haft.
- [33b *The Roman Empire.* Chiefly a social and political study. Open to sophomores by permission of the instructor. Alternates with 314b. M T W 12. Miss Garsoian.]
- [34b *Economic and Social History of Europe in the Middle Ages.* Recommended background, 11, 24a, or 35b. M T W 10. Mr Packard.]
- 35b *Cultural History of Europe in the Middle Ages.* Recommended background, 11, 24a, or 25a. Th F S 10. Mr Packard.
- 36a *The Italian Renaissance.* Th F S 9. Miss Gabel.
- 36b *The Northern Renaissance and the Reformation.* Th F S 9. Mr Douglas.
- [37b *Problems of German History from 1648 to the Present.* A study of the growth and interaction of German intellectual, social, political, and economic forces within the framework of modern Europe. Alternates with 411a. Th F S 10.]
- [38a *Intellectual History of Europe in the Eighteenth Century.* Main trends of thought in their relation to the political, social, and economic background. M T W 11.]
- 38b *Intellectual History of Europe in the Nineteenth Century.* Main trends of thought in their relation to the political, social, and economic background. M T W 11. Mr Mitchell.
- 39 *Modern European History.* Political, economic, and social developments in Europe during the nineteenth and twentieth centuries. Recommended background, 11 or its equivalent. M T W 12. Mr Salvadori.
- [310a *Modern Britain.* Political, social, and intellectual history of Britain in the nineteenth and twentieth centuries. M T W 10. Miss Wilson.]

- 311a *England under the Tudors and Stuarts.* Political, social, and intellectual history of England in the sixteenth and seventeenth centuries. Alternates with 310a. M T W 10. Miss Wilson.
- 312a *Central Europe, 1815 to the Present.* A study of Central Europe in the nineteenth and twentieth centuries. The Habsburg Monarchy and its successor states. Problems of a multi-national area in an age of nationalism. The interaction between this area and the great powers. M T 4-5:30. Mr von Klemperer.
- 313b *The Age of Absolutism.* Political, social, and economic problems of Continental Europe from 1648-1789. M T W 10. Mrs Hoyt.
- [314b *The Byzantine Empire, 330-1453.* The main problems and characteristics of the Byzantine civilization and its relations, political, religious, and cultural, with the West. Alternates with 33b. M T W 12. Miss Garsoian.]
- 315a *The Modern Middle East.* An introduction to the political, social, and economic developments in the modern Middle East with emphasis on the survival of traditional Muslim concepts and institutions. M T W 9. Mr Haddad.
- 316b *Modern Imperialism.* Rise and decline of empires, Western and Eastern, from the sixteenth to the twentieth century. Alternates with 413b. M T W 2. Mr Salvadori.
- 318a *Introduction to Far Eastern Civilizations from the Beginning to 1500.* A survey of the political, economic, social, and cultural aspects of the civilization that developed in China; its extension and modification in Japan and other areas of Eastern Asia. Alternates with 425a. M T W 11. Mr MacSherry.
- 318b *Introduction to Far Eastern Civilizations, 1500 to the Present.* A survey of Far Eastern civilizations during the period of limited contact with the West (sixteenth to eighteenth centuries) and the period of extensive Western influence (nineteenth and twentieth centuries). M T W 11. Mr MacSherry.
- 319a *American Political History from the Eighteenth Century to 1865.* W Th F 2. Mr Elkins.
- 319b *American Political History from 1865 to 1945.* W Th F 2. Mr Elkins.
- 320b *Economic History of the United States in the Twentieth Century.* A study of the development of the American economy in its relations to recent social and cultural changes. W Th F 3. Mr Jones.
- 321a *American Intellectual History, 1607-1865.* Early development of significant American ideas and social attitudes in relation to social and economic environment. Special emphasis on interchange of American and European ideas, agencies of intellectual life, and developments in religion, science, and the arts. Th F S 11. Mr Mann.

HISTORY

- 321b *American Intellectual History, 1865-1950.* The historical background of contemporary American thought, emphasizing the influence of industrialism, science, and religion. Th F S 11. Mr Mann.
- [322a *Foreign Policy of the United States to 1898.* W Th F 2. Mr Sheehan.]
- [322b *Foreign Policy of the United States since 1898.* To be given as Government 324a.]
- 325a *Latin-American History.* Mexico, Argentina, and Brazil in the nineteenth and twentieth centuries. An analysis of their political, social, and economic problems. Open to sophomores by permission of the instructor. Th F S 10. Mr Ruiz.
- [327b *Foundations of American Civilization.* A comprehensive analysis of the European origins of American civilization, and of the economic, political, social, and religious development of the colonies up to the era of the Revolution. M T W 11.]
- 328a *History of the South since the Reconstruction Period.* Th F S 9. Mr Elkins.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours in history above Grade I. *Two or three hours.*

Undergraduate Seminars

These courses are limited to twelve students and are open with the permission of the instructors to seniors, and to juniors who have completed a second course in history. They will ordinarily meet each week for two hours, counting as *three*. In special cases honors students may be permitted to take a seminar for *six* hours credit.

- 43b *The Hellenistic Age.* Studies in the formative ideas and institutions of the period from Alexander the Great to the founding of the Roman Empire. Mr Cohn-Haft.
- 44b *Medieval France and England.* Mr Caspary.
- 46a *The Renaissance in Italy and its Reflection in Art.* Open to majors in history and art. Th 3. Miss Gabel, Mrs Kennedy.
- 47a *The Expansion of Europe Overseas 1500-1789.* M 3-5. Mr Mendenhall.
- 48b *Revolution and Dictatorship.* The French Revolution and Napoleon. T 4. Mrs Hoyt.

- 49b *Modern Britain*. T 7:30. Miss Wilson.
- 410a *Modern Europe*. The analysis of a few major problems in Europe in the nineteenth and twentieth centuries, with particular attention to the growth and decline of free institutions. Open to students with adequate preparation in European history. M 4-6. Mr Salvadori.
- [411a *Romanticism and Liberalism*. Main currents of thought in the first half of the nineteenth century, with special attention to their influence on the political developments during this period. Alternates with 37b. Th 7:30.]
- 411b *Modern Germany*. Th 4. Mr von Klemperer.
- [413b *Capitalism and the Social Problem in Europe from the Industrial Revolution to the Crisis of 1929*. Alternates with 316b. Mr Salvadori.]
- [414b *Race, Nationality, and Religion in American History*. Mr Mann.]
- 415a *Anglo-American Radicalism, 1865-1914*. Mr Jones.
- [415b *United States Foreign Policy since 1898*. The seminar will concentrate on the Far East and its problems. Th 4. Mr Sheehan.]
- 416b *The Antebellum South*. W 7:30. Mr Elkins.
- 420b *Inter-American Affairs*. Latin America and the United States since 1900. Selected topics. Mr Ruiz.
- [425a *Problems in the Intellectual History of China and Japan*. Alternates with 318a. M 4. Mr MacSherry.]

HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology*. The Military and Society. A comparative and historical study of the relationship between the armed forces and the social and political order in the United States, Europe, and Latin America. Social composition and ideology of the military, its social and political role, the problem of civilian control. Historical, economic, ideological, and political forces affecting conceptions of military strategy. Mr Chinoy, Mr Rothman.

Graduate Seminars

50, 50a, 50b Research and Thesis. *Three or six hours.*

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51, 51a, 51b Special problems in advanced work in history, arranged individually with graduate students. *One hour or more.*

55 *Modern European History.* A study of main developments in the social and political life of European nations with special regard to the twentieth century. Mr Salvadori.

56 *American History.*

Adviser of graduate study: Mr Cohn-Haft.

THE MAJOR

Advisers: Mr MacSherry, Mr Mann, Mr Cohn-Haft, Mrs Hoyt, Mr Ruiz, Mr Monas, Mr Jones, Mr Elkins, Mr Caspary, Mrs Abernathy.

Based on 11, 12, 13, or an equivalent course. Students who have been exempted from the distribution requirement in Group D are expected to take six semester hours in the Department in their first two years if they wish to major in history.

Essential Courses: 30a and eighteen hours in history.

Optional Courses: nine semester hours in history or in related departments.

The senior examination will assume some preparation, at least three semester hours, in each of the following fields: Europe before 1700; Europe after 1700; American History.

Major programs may be arranged to correlate work in history and related subjects in such broad fields as ancient civilization, medieval or Renaissance studies, modern Europe, or area studies (*e.g.*, the Americas).

Attention is called to the Interdepartmental Major in American Studies.

HONORS

Director: Miss Wilson.

Prerequisites: two courses in history or one course in history and one in a field appropriately related to the honors program.

Program: the fixed requirements for all candidates will consist of a minimum of twenty-four semester hours in history, plus six semester hours in history or in appropriately related courses in other departments. The required twenty-four semester hours in history will include: (1) at least six semester hours in units or undergraduate seminars offered by the Department; (2) the unit, *History and Historians*, and (3), in the senior year, a long paper.

ITALIAN LANGUAGE AND LITERATURE

Examinations: (1) a general examination assuming some preparation* in each of the fields—Europe before 1700, Europe since 1700, American history; (2) an examination on historical literature and method; (3) a special examination in one of the following fields: ancient, medieval, early modern to 1789, Europe since 1789, American, Imperialism, and the Far East. Students will construct their programs with this distribution and emphasis in mind.

*i.e., at least a semester course devoted largely to the field concerned.

Units

History and Historians (introductory unit). A study of great historians and of the development of historical thought. First semester. M 4-6. Members of the Department, Mr Packard (*Director*).

The Roman Republic. Second semester. Alternates with 23b. Mr Cohn-Haft.

Medieval Europe. First semester. Mr Packard.

[*The Later Roman Empire (300-800)*. (Studies in the transition between the Ancient and Medieval World.) First semester. Miss Garsoian.]

[*The Age of the Renaissance*. Second semester. Miss Gabel.]

Western Europe in the Seventeenth Century, or England in the Sixteenth and Seventeenth Centuries. First semester. Miss Wilson.

[*Eighteenth-Century Europe*. Political, social, and economic problems. Second semester. Mrs Hoyt.]

Modern Europe. Second semester. Mr von Klemperer and Mrs Abernathy.

[*American History Topics in the Westward Movement*. Second semester.]

Race, Nationality, and Religion in American History. First semester. Mr Mann.

Recent Interpretations of American History. Second semester. Mr Jones.

ITALIAN LANGUAGE & LITERATURE

PROFESSOR:

MICHELE FRANCESCO CANTARELLA, A.M., *Chairman*

ASSISTANT PROFESSOR:

ANNA M. MARTELLONI, DOTTORE IN LETTERE

INSTRUCTORS:

FRANCA LOLLI, DOTTORE IN LETTERE

ENRICA JEMMA, DOTTORE IN LINGUE E LETTERATURE
STRANIERE

The distribution requirement in Group A may be fulfilled by 26 or, with the permission of the instructor, six hours of a Grade III literature course.

ITALIAN LANGUAGE AND LITERATURE

It is recommended that students planning to major in Italian take History 11 and Philosophy 11 or 24. Those planning to spend the junior year in Italy are urged to take Art 11 in the freshman or sophomore year.

11b or 12 is the prerequisite for 26 and all grade III courses.

- 11 *Elementary Course.* Five class hours. M T W 9, 12; two hours to be arranged. Mrs Lolli, Miss Jemma.
- 11b *Elementary Course* (covering the work of two years). *Six hours each semester.* M T W Th F 9, 11; two additional hours to be arranged for conversation in place of some preparation. Mrs Lolli, Miss Jemma. (L)
- 12 *Intermediate Course.* Reading from modern Italian literature, with grammar and composition, followed by a survey of Italian civilization. Prerequisite, two units in Italian or 11. M T W 11. Mr Cantarella. (L)
- 26 *Survey of Italian Literature.* Reading of outstanding works, with cultural and social background. Th 9; F 9, 12. Miss Jemma. (L)
- [31a *Advanced Composition.* Mrs Lolli.]
- 36 *Dante: Vita Nuova, Divina Commedia.* M T W 10. Mr Cantarella.
- 37 *Major Literary Figures of the Italian Renaissance.* M 7-9; Th 3-4. Mrs Lolli.
- [38 *Literature of the Eighteenth and Nineteenth Centuries.* Mrs Lolli.]
- 39 *Contemporary Literature.* T 5; Th 4-6. Mr Cantarella.
- 40b Directed Reading and Review. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Italian. *Two or three hours.*
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced Studies. *One hour or more.*
- Adviser of graduate study: Mr Cantarella.

THE MAJOR

Adviser: Mr Cantarella.

Based on 11b or 12.

Essential Courses: 26, except for those who spend the junior year in Italy, 36, 40b, and one other course of Grade III.

Optional Courses: closely related courses in allied fields such as history, literature, art, and music.

MATHEMATICS

HONORS

Director: Mr Cantarella.

Prerequisite: 11D or 12.

Program: to be arranged with the director; three hours on an independent piece of work.

Examinations: one on the general field of literature; one on the field of specialization; one on linguistic preparation.

MATHEMATICS

PROFESSOR:

NEAL HENRY MCCOY, PH.D., *Chairman*

ASSISTANT PROFESSORS:

BERT MENDELSON, PH.D.

†ALICE B. DICKINSON, PH.D.

WALLACE S. MARTINDALE, 3RD, PH.D.

STEWART M. ROBINSON, PH.D.

Students planning to take courses in mathematics are expected to offer at least three units of mathematics for entrance; those planning to major in mathematics are advised to take a course in mathematics in each of the freshman and sophomore years. A course in astronomy or physics is also recommended. For additional preparation for honors work, see the honors program.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group F by taking Mathematics 12, 13 or 14.

- 12 *Mathematical Analysis.* Trigonometry; analytic geometry; elements of calculus. Prerequisite, three units of mathematics not including trigonometry. M T W 10. Mr Martindale.
- 13 *Analytic Geometry and Calculus.* Prerequisite, at least three units of mathematics including trigonometry. M T W 11, 3; Th F S 10. Members of the Department.
- 14 *Analytic Geometry and Calculus.* Prerequisite, four units of mathematics including both trigonometry and at least a half-year of calculus; also permission of the instructor. M T W 11. Mr McCoy.
- 21a, 21b *Differential and Integral Calculus.* Prerequisite, for 21a, 12; for 21b, 21a. M T W 10. Mr Mendelson.
- 22a, 22b *Differential and Integral Calculus.* Prerequisite, for 22a, 13; for 22b, 22a. M T W 11, Th F S 9. Mr McCoy, Mr Robinson.

MATHEMATICS

- 31a *Intermediate Calculus*. Topics from calculus including multiple integration, infinite series, and partial differentiation. Prerequisite, 21b. M T W 10. Mr McCoy.
- 32a *Differential Equations*. Solution and application of ordinary differential equations. Prerequisite, 22b or 31a. M T W 11. Mr Martindale.
- 33a, 33b *Higher Algebra*. Topics from the theory of equations, and an introduction to modern abstract algebra. 33a for students who have passed or are taking 21a or 22a; prerequisite for 33b, 33a. M T W 9. Mr Martindale.
- 34a *Projective Geometry*. Prerequisite, 12 or 13. M T W 2. Mr Mendelson.
- 35b *Theory of Numbers*. Properties of integers including divisibility, theory of congruences, primitive roots, theorems of Fermat and Wilson. Prerequisite, 33a. M T W 10. Mr McCoy.
- 36b *Differential Geometry*. Differential geometry of curves and surfaces in three dimensions. Prerequisite, 22b or 31a. M T W 2. Mr Mendelson.
- [37a *Topology*. Point set topology, the real line, metric spaces, abstract topological spaces; combinatorial topology, theory of graphs, abstract complexes, fixed point theorems. Prerequisite, 22b or 31a. M T W 11. Mr Martindale.]
- [39a *Theory of Probability*. An introduction to the mathematical theory of probability including combinatory analysis, simple and conditional probability. binomial and normal distributions. For students who have passed or are taking 21a or 22a. M T W 2. Mr Mendelson.]
- [39b *Mathematical Statistics*. An introduction to the mathematical theory of statistics, including a discussion of random variables, mathematical expectation, convergence in probability, and statistical inference. Prerequisite, 39a.]
- 40b Seminar. Mr Mendelson.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in mathematics. *Two or three hours*.
- 43 *Advanced Calculus*. Open to juniors. Prerequisite, 22b, or 31a. Th F S 9. Mr Robinson.
- 48 Honors paper, review, and coordination. For seniors.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 52a, 52b *Special Studies in Topology and Analysis*. *One hour or more*.
- 53a 53b *Special Studies in Modern Geometry*. *One hour or more*.

MATHEMATICS

54a, 54b *Special Studies in Algebra*. Theory of numbers, theory of groups, matrices and determinants, and modern algebraic theories. *One hour or more.*

Adviser of graduate study: Mr Mendelson.

THE MAJOR

Advisers: Mr McCoy, Mr Mendelson.

Based on 12, 13 or 14.

Essential Courses: 21a, 21b, 31a or 22a, 22b; 40b, and other courses in mathematics, making a total of twenty-one semester hours.

Optional Courses: other courses in mathematics.

Astronomy, courses above Grade I except 21b and FC 24b.

Physics, courses above Grade I.

Economics 28a, 38b; Chemistry 32; Philosophy 21a or b, 31b.

HONORS

Director: Mr McCoy.

Prerequisites: 22b or 31a.

Program:

Essential Course: 48.

Optional Courses: other courses in mathematics or courses in related fields chosen in consultation with the director.

Examinations: two will cover the general field of the major, one will test the field of specialization.

MUSIC

PROFESSORS:	JOHN WOODS DUKE DORIS SILBERT, A.M. ALVIN DERALD ETLER, MUS.B. GERTRUDE PARKER SMITH, A.M., <i>Chairman</i> LOUISE ROOD, M.A. RAYMOND PRENTICE PUTMAN †BIANCA DEL VECCHIO, DIPLOMA DI MAGISTERO
ASSOCIATE PROFESSORS:	**MARION DERONDE, A.B. IDA DECK HAIGH PHILIP KEPPLER, M.F.A.
DIRECTOR OF CHORAL MUSIC:	IVA DEE HIATT, M.A.
ASSISTANT PROFESSORS:	†VERNON DETWEILER GOTWALS, JR., M.F.A. GABRIEL BANAT, M.MUS. DOROTHY STAHL, B.MUS. ROBERT MARTIN MILLER, MUS.M.
INSTRUCTORS:	ADRIENNE AUERSWALD, A.B. EDWIN LONDON, PH.D. GEORGE THEOPHILUS WALKER, D.M.A.
VISITING ORGANIST:	PHILIP ASTOR PRINCE, B.A., MUS.M.
TEACHING FELLOWS:	PATRICIA ANN STINECIPHER, B.MUS. ANNE TATNALL, A.B.
ASSISTANT IN CHORAL MUSIC:	CHARLES K. FASSETT, B.A.
CURATOR:	RUTH MARGARET AGNEW, M.A.

The courses in music which may be taken to fulfill the distribution requirement in Group B are 13, 23. However, if a student is considering a major in the Department, 13 is not advised.

A. Composition

- 11 *Elementary Course.* Basic materials of composition. Sight-singing, ear-training, and exercises in one- and two-part writing. Three class hours. *Two hours each semester.* M T W 12, 3; Th F S 10. Miss Smith (*Director*), Miss Rood, Mr London.
- 12 *Elementary Course.* Basic materials of composition. For students who, by passing a test, demonstrate familiarity with scales and intervals, and the ability to sing at sight a simple melody. Three class hours. *Two hours each semester.* M T W 12. Mr London.

MUSIC

- 21 *Intermediate Course.* Materials of composition, continued. Exercises in three- and four-part writing. Prerequisite, 11 or 12. *Two hours each semester.* M T 11; Th F 11. Miss Rood, Mr Walker.
- 22 *Intermediate Course.* Materials of composition, continued. Prerequisite, 12. *Two hours each semester.* Th F 11. Mr Etler.
- 24 *Keyboard Harmony.* The student must have passed or be taking 21 or 22. One class hour. *One hour each semester,* to be arranged.
- 33 *Composition in Small Forms.* Prerequisite, 21 or 22. Mr Etler.
- 42 *Composition for Small Instrumental Groups.* Prerequisite, 33. Mr Etler.

B. Literature

Unless otherwise stated the prerequisite for Grade III courses in this division is 23.

- 13 *An Introduction to Music.* First semester, observation of the elements of music and musical form. Second semester, a consideration of musical styles from the Renaissance to the present. No previous training in music is required. This course may not be taken as the theory requirement by students receiving credit for practical music. M T 4 and a third hour to be arranged for sections. Mr Keppler.
- 23 *General History of Music.* Prerequisite, 13, 11 or 12. M T W 9. Miss Silbert.
- 30a *Tonal Organization.* Practice in analytical techniques. Prerequisite, 21 or 22. M T W 10. Miss Smith.
- 34a *Beethoven.* Qualified students may be admitted on the basis of 13, 11 or 12 by permission of the instructor. To alternate with 35a. W Th F 3. Miss Rood.
- 34b *Solo Song.* Study of representative works from Schubert to the present. M T W 10. Miss Smith.
- [35a *Symphonic Developments in the Nineteenth Century.* Qualified students may be admitted on the basis of 13, 11 or 12 by permission of the instructor. To alternate with 34a. W Th F 3. Miss Rood.]
- 35b *Nineteenth-Century Opera.* Main trends in Romantic opera. Qualified students may be admitted on the basis of 13, 11 or 12 by permission of the instructor. W Th F 3. Mr Keppler.
- 37b *Bach, Handel, and Their Contemporaries.* Study of representative vocal and instrumental works. M T W 11. Miss Rood.

MUSIC

- 38a *Haydn and Mozart.* M T W 9. Mr Keppler.
- 311a *Chamber Music in the Nineteenth Century.* M T W 12. Miss DeRonde.
- 313b *The Literature of the Pianoforte.* M T W 12. Mr Duke.
- 41, 41a, 41b Special Studies in the theory and literature of music. By permission of the Department for senior majors who have had twelve semester hours above Grade I in music. *Two or three hours.*
- 43a *Music in the Sixteenth Century.* The mass, motet, madrigal, and chanson from Josquin to Byrd. Miss Smith.
- [45b *Modern Music.* Prerequisite, 30a. (Open to juniors by permission of the instructor.) Th 7-10. Mr Etler.]
- 46a *Twentieth Century Music for Theatre.* A study of contemporary operas and ballets. Prerequisite, 30a. To alternate with 45b. M T W 11. Mr London.
- 50, 50a, 50b Research and Thesis. *Three or six hours.*
- 51, 51a, 51b Advanced studies arranged on consultation with the Department. *One hour or more.*
- [52a Special Studies. Special studies in eighteenth-century instrumental music. Mr Keppler.]
- 53a *Precedents for Contemporary Procedures.* Mr Etler.
- 53b *Music in the Fourteenth and Fifteenth Centuries.* Representative examples of sacred and secular composition from Machaut and Landini to Josquin. Miss Smith.

C. PRACTICAL MUSIC

Courses are offered in the technique and representative literature of the piano, organ, voice, violin, viola, violoncello, flute, oboe, clarinet, bassoon, and French horn, and in instrumental ensemble and conducting. There are fees for all course involving individual instruction and for the use of practice rooms. These fees are listed on page 165 of the *Catalogue*.

Students taking practical music (Division C) to be counted within the minimum fifteen-hour program must take and pass at least an equal number of credit hours from Division A or B (except 13). Exception is made for juniors and seniors who are not music majors who take the Grade III and IV courses above the minimum fifteen hour program. (See below.) Any course in Division C and its accompanying course in Division A or B may be counted together as one of the required number of three-hour courses, but each course will receive its full credit.

Courses of Grade I and II normally require one hour of individual instruction and six hours of practice per week and receive *two hours* of credit each semester; but they may, when taken in conjunction with composition 33 or 42, or when taken by junior or senior majors, require nine hours of practice per week and receive *three hours* of credit each semester. *Additional exceptions:* Music 141 and Instrumental Ensemble.

Courses of Grades III, IV, and V, if counted within the minimum fifteen-hour program, will require one hour of individual instruction and nine hours of practice and receive *three hours* of credit each semester.

Qualified students may divide the course, combining two hours credit in one instrument with one hour credit in ensemble.

For juniors and seniors who are not music majors courses of Grades III and IV carrying *two hours* credit are available if taken above the minimum fifteen hour program. These students must have the permission of the instructor and a grade of B or above in the previous course.

No student in practical music will be admitted to a course above Grade II who has received a mark lower than C in the previous course in the same branch.

Before registering for any course in practical music the student must consult members of the Department at the College in May or during the days just previous to the beginning of the first semester.

VOICE, STRINGED INSTRUMENTS, WIND INSTRUMENTS. Beginners are accepted in these branches on the basis of requisite musical aptitude. The instructor of the specific course should be consulted at the times indicated above. Candidates applying for scholarship aid in these courses must perform a piece of their own choice.

PIANO. Candidates for Music 121 will be expected to play three pieces representing different styles in piano literature, one from each of the following headings: (1) a piece by J.S. Bach; (2) an allegro movement from a sonatina or sonata by Clementi, Kuhlau, Haydn, Mozart, or Beethoven; (3) a piece composed after 1825.

ORGAN. The prerequisite for organ courses is Music 121 or its equivalent.

Piano. 121, 222, 323, 424, 525. Mr Duke, Mr Putman, Mrs Haigh, Mr Walker.

Organ. 232, 333, 434, 535. Mr Prince.

Voice. 141. This course will require two class hours, one half-hour lesson, and four hours of practice per week. *One hour each semester.* M T 11; Th F 12.

242, 343, 444, 545. Miss Stahl, Miss Auerswald.

MUSIC

Violin. 151, 252, 353, 454, 555. Mr Banat.

Viola. 161, 262, 363, 464, 565. Miss Rood.

Violoncello. 171, 272, 373, 474, 575. Miss DeRonde.

Woodwind Instruments. 181, 282, 383, 484, 585. Mr Etler (*Director*), oboe; Miss Lichter, flute; Mr Lynes, clarinet; Mr Hebert, bassoon; Mr London, French horn.

Instrumental Ensemble. 191a, 191b, 292a, 292b, 393a, 393b, 494a, 494b. Open to qualified students who are studying their instruments. These courses require one hour lesson and three hours of practice per week. *One hour each semester.* Miss DeRonde.

321a *Choral Conducting.* Study of various styles of choral music suitable for secondary schools and small groups. The course will be limited to sixteen students, by permission of the instructor. Prerequisite, 21 or 23. Two class hours. *One hour.* T 4-6. Miss Hiatt.

[321b *Orchestral Conducting.* A study of baton technique and of selected orchestral literature. Prerequisite, 21 or 23; recommended background, 35a. Two class hours. *One hour.* T 4-6. Miss DeRonde.]

THE MAJOR

Advisers: Miss Rood, Miss Smith.

Based on 11 or 12.

Essential Courses: 21 or 22, 23, 30a and nine semester hours above Grade II.

Students majoring in Music will be required to pass a general examination at the end of the senior year. The examination will test analytical, historical, and critical competence in dealing with music of various periods.

Optional Courses: related courses in other fields.

HONORS

Director: Mr Keppler.

Prerequisites: 11 or 12, 21 or 22, 23.

Program: students will fulfill the requirements of the major, present a paper, and take a minimum of nine semester hours in other departments. Apart from these requirements the program will be planned with the director to meet individual needs.

Examinations: one general comprehensive; one involving critical analysis on a limited field of concentration in literature or composition; one oral.

Adviser for graduate study: Miss Rood.

PHILOSOPHY

PROFESSORS:	ALICE AMBROSE LAZEROWITZ, PH.D., LL.D., <i>Chairman</i> MORRIS LAZEROWITZ, PH.D. DOROTHY WALSH, PH.D.
VISITING LECTURER:	JOHN LADD, PH.D.
ASSISTANT PROFESSOR:	STEN HAROLD STENSON, PH.D.
INSTRUCTORS:	ROSALIND EKMAN, A.M. ?NANCY KING-FARLOW, A.B.

The courses in philosophy which may be taken to fulfill the distribution requirement in Group C are 11, 22, 24, 33.

- 11 *Introduction to Philosophy.* Reading and discussion of some of the most important classic and modern philosophical works, to introduce the student to such topics as the relation of mind and body, sources of knowledge, freedom and determinism, nature and status of ideas. M T W 9, 10, 11; Th F S 9, 10. Mrs Lazerowitz, Miss Walsh, Mr Stenson.
- 21a *Logic.* Introductory course, including study of common fallacies in reasoning, theory of the syllogism, and some modern developments. The course is intended to train the student in effective use of principles of correct thinking. Th F S 9. Mrs Lazerowitz.
- 21b Repetition of 21a. Open to freshmen by permission of the instructor. M T W 12. Mr Lazerowitz.
- [22 *Ethics.* A study of the major ethical theories, with emphasis on Mill, Kant, and Aristotle. Problems of the analysis of ethical concepts, with readings from Hume, Moore, Stevenson, and other contemporary moral philosophers. Th F S 9. Miss Ekman.]
- 24 *History of Philosophy from Thales to Kant.* Introduction to basic philosophical concepts, their origins and historical development. The course should be of use also to students majoring in other fields who wish to obtain an acquaintance with the history of ideas. M T W 11, 3; Th F S 10, 11. Mr Lazerowitz, Mr Ladd, Miss Ekman, Mrs King-Farlow.
- 31b *Advanced Logic.* Postulate sets. The system of *Principia Mathematica*: general propositions; definite descriptions; classes and the theory of types. Open to sophomores. Prerequisite, 21a or b. Mrs Lazerowitz.
- 32a *Metaphysics and Language.* Development of a new linguistic technique for the solution of philosophical problems. Its application to a selection of metaphysical theories which closely resemble scientific theories: theories of time, space, substance, causality and freedom, universals, a priori propositions. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.

PHILOSOPHY

- 32b *Epistemology*. General explanation of a new linguistic technique for the solution of philosophical problems. Its application to epistemological and closely related problems: our knowledge of the external world, other minds, the mind-body problem, rationalism and empiricism. Prerequisite, six semester hours in philosophy. F 11-1. Mr Lazerowitz.
- 33 *Aesthetics*. A discussion of problems. Topics dealt with include sensuous structure, emotional expression, symbolism artistic meaning, truth, value, judgments of appraisal. M T W 9. Miss Walsh.
- [35b *Kant*. A study of special topics in the *Critique of Pure Reason*, with consideration of their influence on later philosophers. Given in alternate years. Prerequisite, 11 or 24. Mr Lazerowitz.]
- [36b *Plato*. Study of the major dialogues, with special emphasis on Plato's lasting contributions to philosophy. Given in alternate years. Open to sophomores. Prerequisite, 11 or 24. M T W 12. Mr Stenson.]
- 37a *Philosophy of Religion*. A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dilley.
- 37b *Hegel and Hegelianism*. A historical and critical study of Hegel, the man, and his doctrine, his rivals, followers, and opponents. Given in alternate years. Prerequisite, 24. M T W 12. Mr Stenson.
- 310a *American Philosophy*. Philosophical ideas of Edwards, Emerson, Royce, James, Dewey, and others, with attention to the connection of these ideas with current religious, political, and moral views. M T W 12. Mr Stenson.
- 311a *Recent and Contemporary Philosophy*. Bradley, Russell, G. E. Moore. Prerequisite, 24. Th 4-6 and a third hour to be arranged. Mrs Lazerowitz.
- 311b *Recent and Contemporary Philosophy*. Ayer, Wittgenstein, Wisdom, Austin. Prerequisite, 24. Th 4-6 and an hour to be arranged. Mrs Lazerowitz.
- 313a *The Nature of Reason*. An enquiry into transcendental and dialectical methods of reason and reason's relation to (a) less general conceptions of mind (intellect, spirit, understanding), (b) other modes of belief (intuition, faith), and (c) other modes of reality. Prerequisite, six semester hours and permission of the Chairman of the Department. T 3:30-5:30. Mr Tovey, Mount Holyoke College, and Mr Ehrlich, University of Massachusetts.
- 40b Directed reading and papers for seniors majoring in the Department.

PHILOSOPHY

41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in philosophy. *Two or three hours.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced studies arranged individually.

[53 *A Systematic Study of Aesthetic Theory.* Miss Walsh.]

[55a *Topics in Logical Theory.* With special reference to foundations of mathematics. Mrs Lazerowitz.]

[56b *Contemporary Ethics.*]

Adviser of graduate study: Mr Lazerowitz.

THE MAJOR

Adviser: Mr Lazerowitz.

Based on six semester hours in philosophy.

Essential Courses: twenty-one semester hours in philosophy, including 24 (unless used as the basis of the major) and 40b.

Optional Courses: related courses in other departments.

HONORS

Director: Mr Lazerowitz.

Prerequisites: any year course in philosophy of Grade I or Grade II; in addition 21a or b is advised. For other prerequisites for specific programs the director should be consulted.

Program: the requirements for all candidates will consist of a minimum of twenty-four hours in philosophy, plus six hours in philosophy or in a related field. The work in philosophy shall normally include two units or seminars.

Examinations: one on philosophical systems and history of philosophy; one on value theories and methodology; one on some special topic in philosophy or in a related field.

Units

Aesthetics. Six hours. First semester. Miss Walsh.

[*Logic (Theory of Probable Inference).* Three hours. Second semester. Given in alternate years. Mrs Lazerowitz.]

Ethics. Three hours. Second semester. Miss Walsh.

British Empiricism. Three hours. First semester. Mr Lazerowitz.

Philosophical Analysis. Three hours. Second semester. Given in alternate years. Mr Lazerowitz.

PHYSICAL EDUCATION

ASSOCIATE PROFESSORS:	JANE ADELE MOTT, PH.D., <i>Director</i> **FLORENCE MARIE RYDER, M.S. ANNE LEE DELANO, A.M. MARTHA COLEMAN MYERS, M.S. IN PHY. ED.
ASSISTANT PROFESSORS:	RITA MAY BENSON, M.S. IN H.P.E. CARYL MIRIAM NEWHOF, M.S. IN PHY. ED. EUNICE ELLEN WAY, PH.D. JEAN CAMPBELL, M.S. IN PHY. ED. MARTHA CLUTE, A.M.
LECTURER:	RUTH EVANS, A.M., M.P.E. (HON.), SC.D. (HON.)
INSTRUCTORS:	JANET MARIE EMERY, B.S. IN ED. KATHERINE AMSDEN, M.S. IN PHY. ED. GEORGIA MARIE SHAMBES, M.S. IN PHY. ED. PHYLLIS ANNE HOFF, M.S. IN PHY. ED. PATRICIA MARIA PETERSON, M.S. NEILL LAURY KELLER, A.B. LANETTA TUGGLE WARE, B.S. IN PHY. ED. 2ALICE S. CONDODINA, A.B. LINDA GURRENA GRANDEY, B.F.A. ANGELA SUSAN PICKLES

Physical Education 1a and b and 2a and b are required of all students in the first two years, the type of work being adjusted to the abilities, needs, and conditions of individual students. Continuous failure in these courses because of lack of interest or unexcused absences may result in the student's being requested by the President to withdraw from college.

All students who are in physical education classes or use the gymnasium are required to buy uniform suits and shoes.

The Athletic Association, open to all members of the College, is under the direction of this Department.

A. Physical Education for Undergraduates

Requirements

1a, 1b *Basic Motor Skills, Dance, and Sports*.¹ Three periods of one hour each. Required for freshmen.

Fall Term. One period, basic motor skills; two periods, swimming for those who have not passed the test, for others a choice of the following:

¹A small fee is charged for badminton, campcraft, golf, sailing, skiing, and tennis. In riding, fees cover the rental of horses.

PHYSICAL EDUCATION

Archery, canoeing, crew, golf, hockey, riding, sailing, soccer, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern Dance. Mrs Myers.

Folk Dance. Miss Emery.

Winter Term. One period, basic motor skills; two periods, a choice of:

Badminton, basketball, bowling, fencing, riding, squash, swimming, skiing, tumbling and apparatus. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

The dance, continuing the fall courses and new sections. Mrs Myers.

Folk Dance. Miss Emery.

Spring Term. Three periods, beginning swimming for those who have not passed, the test; for others a choice of:

Archery, campcraft, canoeing, crew, golf, lacrosse, riding, sailing, softball, swimming, tennis, volleyball. Members of the Department.

Adapted physical education. Miss Ryder, Miss Shambes.

Modern dance, continuing the fall and winter courses and new sections. Mrs Myers.

2a, 2b *Dance and Sports*. Three periods of one hour each. Required for sophomores, Each term a choice of sports and dance as listed under the corresponding term for 1a and b.

A health consultation is required for juniors and seniors, and any student who is falling below a standard which for her is reasonable must take work under the direction of the Department as follows:

3a, 3b Required for these juniors.

4a, 4b Required for these seniors.

Elective Classes and Sports

Juniors and seniors may elect work in any class listed above or in the sports sections for upperclassmen.

In addition there are riding trips under the Riding Club, open-hour swimming at the pool, Outing Club trips, week-end sailing, and special sports and dance events.

Courts and other equipment are available to all students when not being used by classes.

B. The Graduate Course in the Training of Teachers of Physical Education

This course is open to students of Smith College and to graduates of other colleges of approved standing. Students entering it will be given the opportunity to specialize

PHYSICAL EDUCATION

in one of four fields: adapted physical education, the dance, recreation (physical education in relation to community service and clubs), sports (in relation to schools and colleges).

The course has as its basic plan classes in science and education as well as physical education. Smith College students may take the scientific and educational courses as undergraduates and in so doing will be able to fulfill the requirements for the degree in one year after graduation.

Properly qualified students from Smith and other colleges will be accepted for work toward the degree of Master of Science in Physical Education (M.S. in Phy. Ed.). Six semester hours of zoology, nine hours of education, and six hours in one of the following: bacteriology, chemistry, experimental psychology, mathematics, nutrition, physics, zoology should be offered as prerequisites. Students who have satisfactorily completed these courses and the equivalents of Physical Education 33a and b, 42a and b, and 43a and b may become candidates for the degree in the first year; other students normally require two years.

Students who wish to enter the course should present a written statement from a physician that they are in good condition and able to undertake a course in physical education. For further information write to Miss Mott, Scott Gymnasium, for the special booklet describing the course.

33a, [33b] *Adapted Physical Education*. The basic teaching material of preventive and corrective phases of physical education as applied to individual developmental needs. M T W 12. Miss Ryder.

42a, 42b *Methods and Materials of Physical Education*. Elementary course including the dance, recreation, and sports. Required in the first year of students entering from other colleges who have not fulfilled the requirement elsewhere. Open to undergraduates only by permission of the Director of Physical Education. Prerequisite for 42b, 42a. Two lectures, six hours of practice. Members of the Department.

43a, 43b *The Physiology and Anatomy of Movement*. An analytical study of human motor activity. Prerequisites, Zoology 12 and permission of the Director of Physical Education. Two one-hour lectures and four hours of laboratory. Lec. Th F 11; lab. Th F 9-11. Miss Ryder, Miss Way.

50, 50a, 50b Research and Thesis. *Three or six hours*. Miss Mott, Miss Way.

51a, 51b Special Studies in (1) Research, (2) Administration, (3) Recreation, (4) Dance, (5) Adapted Physical Education, (6) Current Problems in Physical Education. Members of the Department.

52a, 52b *Methods and Materials of Physical Education*. Advanced course offering opportunity for the student to specialize in adapted physical education, the

PHYSICS

dance, recreation, or sports. Theory, two hours; practice, six hours. Members of the Department.

53a, 53b *Gymnastics and Basic Motor Skills*. Theory, one hour; practice, two hours. One hour. Miss Ryder, Miss Delano, Miss Shambes.

54a or b *Elementary Measurement in Physical Education*. Miss Mott.

55a *Organization and Administration of Physical Education*. Miss Mott.

55b *History and Principles of Physical Education*. Miss Evans.

56a, 56b *Directed Practice in the Teaching of Physical Education*. Miss Delano.

[57a] or 57b *Advanced Measurement in Physical Education*. History and methods of testing. Use of statistics and study of special problems. Miss Mott.

PHYSICS

PROFESSORS:

**NORA MAY MOHLER, PH.D., SC.D. (HON.)

†WILLIAM TAUSSIG SCOTT, PH.D.

RESEARCH PROFESSOR:

GLADYS AMELIA ANSLOW, PH.D., SC.D. (HON.)

VISITING RESEARCH

PROFESSOR:

DOROTHY WRINCH, D.SC.

ASSOCIATE PROFESSORS:

JESS J. JOSEPHS, PH.D., *Chairman*

ADAM HENRY SPEES, PH.D.

ASSISTANT PROFESSORS:

WILLIAM BRUCE HAWKINS, JR., PH.D.

WILLIAM HOWARD ROSENFELD, PH.D.

INSTRUCTOR:

PHEBE HAZEL FERRIS COLLINS, A.M.

ASSISTANT:

MARJORIE EBERHARDT COOK, M.S., M.A.

Among the courses which may be taken to fulfill the distribution requirement in Division III are Physics 11, 15, Physical Science 193.

Students planning to major in physics are advised to elect courses in both physics and mathematics in freshman year. Students who are taking or have taken Mathematics 13 or higher are urged to take Physics 15 rather than Physics 11.

11 *Fundamentals of Physics*. An introduction to the laws and properties of matter, from the standpoint of mechanics, heat, sound, electricity, light, and atomic structure. Lecture, demonstration, and discussion, three hours; laboratory, two hours. Lec. and dis. M T W 10, 11; lab. T 11, 2, Th 9, 11. Miss Mohler, Mr Hawkins, Mr Rosenfeld, Mrs Collins, Mrs Cook.

PHYSICS

- 15 *Intermediate General Physics.* A course covering the same subject matter as 11, but with a more mathematical approach. Open by permission to juniors and seniors majoring in other sciences. Three lectures and one three-hour laboratory period. Prerequisite, Mathematics 13 or 14, either of which may be taken concurrently; an entrance unit of physics is advised. Lec. Th F S 11; lab. M T Th F 2. Mr Spees, Mrs Collins, Mr Rosenfeld.
- 21a *Introduction to Atomic and Nuclear Physics.* The experimental evidence concerning atomic structure, the problem of the nucleus, and cosmic ray physics will be presented, with emphasis on the shift in point of view from classical to modern physics. Three hours of lecture and discussion. Prerequisite, 11 or 15. M T W 9. Miss Mohler.
- 24a *Electricity and Mechanics.* A laboratory course in electricity and mechanics. Not open to students who have taken 15. Prerequisite, 11 or Physical Science 193, and Mathematics 12 or 13. One lecture and two three-hour laboratory periods; for those entering with Physical Science 193, one additional discussion. Lec. Th 11; dis. F 11; lab. Th F 2. Mr Hawkins.
- 24b *Optics.* Physical and geometrical optics. Prerequisite, 11 or 15. One discussion and two three-hour laboratory periods. Dis. Th 11; lab. Th F 2. Mr Hawkins.
- 26b *Musical Acoustics.* An introduction to the study of sound, particularly as it applies to musical instruments and hearing. Lecture and demonstration. One hour. W 2:30-4. Mr Rosenfeld.
- 31a, 31b *Electronics.* A semester of experiments in electronics leading to some independent work. Prerequisites, 15 or 24a and Mathematics 21a or 22a. (Mathematics 12 or 13 may be substituted on permission of the instructor.) Two three-hour laboratory periods. T Th 2. Mr Josephs.
- 32a *Mechanics.* Statics and dynamics of particles and rigid bodies. Prerequisites, 11 or 15 and Mathematics 21b or 22b. Th F S 9. Mr Spees.
- 33 *Atomic Physics.* The particle and wave nature of matter and radiation; atomic structure; introduction to relativity theory, radioactivity elementary particles, cosmic rays, and nuclear structure and energy. Prerequisites, 15 or 24a, or 11 with permission of the instructor, and Mathematics 21a or 22a. Th F 12, with one hour to be arranged. Mr Josephs, Mr Rosenfeld.
- 34a, 34b *Modern Physics Laboratory.* A semester of experiments in atomic and nuclear physics, including properties of electrons, radioactivity, X-rays, gaseous discharges, cosmic rays, etc. Two three-hour laboratory periods. Prerequisite, 31a or 31b. Th F 2. Mr Spees.

PHYSICS

- [35a *Causality*. The Laplacean ideal of the universal world machine and the development of mechanistic determinism. The conceptual basis of statistical mechanics and its influence on problems of time and causality. An introduction to the concepts of quantum theory, including the Heisenberg uncertainty relation and Bohr's notion of complementarity. Applications to the question of determinism in living organisms. Prerequisite, a college course in physics, or Physical Science 193, and Mathematics 12 or 13. Lectures and discussions. M T W 10. Mr Scott.]
- 40b *The Relation of Classical and Modern Physics*. Discussion of the development of such general laws as the conservation of energy and the law of gravitation; the relation between Newtonian mechanics and relativity and between classical and quantum physics; current philosophical problems in physics. Discussion and reports. For seniors only. One two and one-half hour period. Members of the Department.
- 41a, 41b *Special Studies*. By permission of the Department for senior majors who have had twelve semester hours above Grade I in physics. *Two or three hours*. Members of the Department.
- 42 *Advanced Electricity and Magnetism*. Static and dynamic electricity, direct and alternating currents, magnetism and electromagnetic fields, principles of electrochemistry, and of electromagnetic radiation. Prerequisites, 15 or 24a and Mathematics 21b or 22b. M W 2, with one hour to be arranged. Mr Hawkins.
- 46b *Heat and Thermodynamics*. A discussion of the laws of heat and thermodynamics, including entropy and the behavior of ideal and real gases. Prerequisites, 15 or 24a and Mathematics 21b or 22b. Th F S 9. Mr Rosenfeld.
- [47a, 47b *Atomic and Molecular Spectra*. Theory and experiments including applications to other sciences. Prerequisites, 24b, or permission of the instructor, and Mathematics 21b or 22b. One hour of lecture and discussion and two three-hour laboratory periods.]
- 411a, b *Teachers' Course*. A one- or two-semester course for prospective teachers of secondary school physics. Hours to be arranged.
- 50, 50a, 50b *Research and Thesis*. *Three or six hours*. Members of the Department.
- 51a, 51b *Special topics* in such fields as electricity and magnetism, statistical mechanics, cosmic rays, solid state physics, and low temperature physics. *Two or three hours*. Members of the Department.
- 52a, 52b *Selected problems* assigned for investigation, experimental work, and discussion. *Three hours or more*. Members of the Department.

PHYSICS

53a, 53b *Principles of Mathematical Physics.*

54a, 54b *Introduction to Quantum Mechanics.*

55a, 55b *Seminar in Nuclear Physics.* Two hours or more.

[58a, 58b *Advanced Spectroscopy.*]

59a, 59b *Structure of Large Molecules.* Physics, chemistry, and geometry of biologically active molecules. One hour or more. Mrs Wrinch.

Adviser of graduate study: Mr Spees.

THE MAJOR

Advisers: Miss Mohler, Mr Spees.

Based on 11 or 15.

Essential Courses: 31a or b, 33, 24b or 34a or b, 40b; Mathematics 21a and b, or 22a and b.

Optional Courses: other courses in physics and mathematics above Grade I, and courses in astronomy, chemistry, and geology.

In addition to the essential courses, each student is expected to receive instruction in shop techniques in a two hour period for one semester.

HONORS

Director: Mr Josephs.

Prerequisites: Physics 11 or 15, and Mathematics 21b or 22b. One or two other courses in mathematics, physics, or chemistry, and a reading knowledge of French or German are advised.

Program:

Essential Courses: 33, two semesters of laboratory work in physics above Grade I, the honors paper, and a review unit.

Optional Courses: other physics courses above Grade II; advanced courses in other sciences, mathematics, or philosophy, chosen in consultation with the director.

Examinations: written examinations covering theoretical and experimental phases of the subject in classical physics, modern physics, and in the field of specialization.

PSYCHOLOGY

PROFESSORS:	**WILLIAM SENTMAN TAYLOR, PH.D. HAROLD EDWARD ISRAEL, PH.D. ELSA MARGAREETA SIIPOLA, PH.D., <i>Chairman</i>
VISITING LECTURER:	² HASKELL ROBERT COPLIN, PH.D.
ASSOCIATE PROFESSOR:	**DILMAN JOHN DOLAND, PH.D.
ASSISTANT PROFESSORS:	HARVEY BURDICK, PH.D. BARBARA STEWART MUSGRAVE, PH.D. JOHN CAMERON HAY, PH.D.
LECTURER:	JEAN CARL COHEN, PH.D.

Unless otherwise indicated, 11a (or 12) is prerequisite for every further course.

Students who have had two years of laboratory science in the last three years of secondary school may fulfill the distribution requirement in Group G by taking six hours from Division A, following 11a.

Students who plan to enter social work should consult their major advisers regarding desirable courses.

- 11a *Introduction to General Psychology.* A survey with emphasis on fundamental principles of human behavior and personality. Two lectures and one two-hour demonstration. M T 9, 10, W 9-11; M T 11, 12, W 11-1; M T 3, W 2-4; F S 9, 10, Th 9-11; T W 2, Th 2-4. Miss Siipola (*Director*), Mr Doland, Mr Burdick, Mr Hay, Mrs Musgrave.

A. Experimental Psychology

- 11b *Introduction to Experimental Psychology.* Application of the experimental method to problems in psychology. Basic experiments in perception, motivation, learning, thinking. Lecture and demonstration, two hours, and one two-hour laboratory period. M T 9, 10, W 9-11; M T 11, 12, W 11-1; M T 2, 3, W 2-4. Mr Hay.
- 31a *Methods in Psychology.* A study of the scientific method and its application to psychological problems with particular reference to experimental design and statistical analysis. Open to sophomores. Prerequisite, 11b. M T W 12. Mr Burdick.
- 310a *Experimental Psychology: Visual Perception.* The study of factors influencing the perception of color, space, and motion, with special attention to the influence of learning and motivation. Open to sophomores. Prerequisite, 11b. M T 3-5. Mr Hay.

PSYCHOLOGY

310b A repetition of 310a. Th F 11-1. Mr Hay.

311b *Experimental Psychology: Social Perception.* Experimental investigation of the factors influencing the perception of emotions, attitudes, and traits of other persons. Open to sophomores. Prerequisite, 11b. T W 11-1. Mr Burdick.

312b *Experimental Psychology: Human Learning.* The study of conditions influencing the processes of learning and memory; explanations of these processes in terms of current theories of learning. Open to sophomores. Prerequisite, 11b. Th F 2-4. Mrs Musgrave.

B. Developmental and Child Psychology

[22a *Educational Psychology.* The educational process considered from the point of view of psychology. The application of psychological principles of development, motivation, and learning to contemporary educational problems. No prerequisite. M T W 12. Mrs Musgrave.]

22b A repetition of 22a. M T W 12. Mrs Musgrave.

23a *Child Psychology.* Study of the theory and principles of the development of the child from birth to puberty. Survey of related research. Th F S 9. Mrs Cohen.

23b A repetition of 23a. Open to freshmen who have passed 11a. Th F S 10. Mrs Cohen.

24b *Psychology of Adolescence.* Study of the theory and principles of the development of the adolescent from puberty to maturity. Survey of related research. Open to freshmen who have passed 11a. Th F S 9. Mrs Cohen.

33b *Comparative Psychology.* Experimental study of animal behavior, with emphasis on discrimination, motivation, and modifiability. Mr Hay.

44a *Child Psychology* (seminar). Selected problems, reports, and discussion. Prerequisite, 23a or b. Mrs Cohen.

C. Personality and Clinical Psychology

27b *Psychology of Personality* (formerly 37b). Study of the psychological organization of the adult personality, with emphasis upon individuality rather than generalized human nature. Basic concepts and theories of psychodynamics and of the development of adult personality-structure. M T W 11. Miss Siipola.

PSYCHOLOGY

- 36a *Dynamic and Abnormal Psychology*. General psychology of conscious and sub-conscious motivation, everyday problems and mechanisms of adjustment, psychoneuroses, psychoses, and mental hygiene. Two optional visits to nearby hospitals. Open to qualified sophomores by permission of the instructor. M T W 3. Mr Taylor.
- 38a *Introduction to Clinical Psychology*. A survey of methods and procedures used in a clinical setting, including appraisal of capacity, personality evaluation, and therapy. Th 2-4, F 2. Mr Doland.
- [38b *Mental Tests in Clinical Practice*. Supervised practice in administering, scoring, and interpreting standard clinical tests, with major emphasis on the testing of intelligence. A minimum of 15 hours of practice outside the laboratory. Th 2-4, F 2. Mr Doland.]
- 360a *Dynamic and Abnormal Psychology* (formerly 36b). Further topics such as meaning, symbols, dreams, hypnotism, and psychotherapy. Open to students who have passed or are taking 36a. Mr Taylor.
- 46b *Seminar in Abnormal Psychology*. Prerequisite, 27b, 36a, or 38a. M 7:30-9:30. Mr Coplin.
- 47a *Psychology of Personality* (seminar). Intensive study of depth psychology and of projective techniques of investigating personality. Prerequisite, 27b. Th 11-1. Miss Siipola.
- 48a *Clinical Study of Children* (seminar). Clinical approaches to the understanding and treatment of the individual child. Areas include: theories of personality development; emotional problems of the normal child as well as serious psychopathology; evaluative and therapeutic procedures utilized with children. Some observation in a clinical setting. Prerequisite, at least one of the following: 23a or b, 27b, or 38a. W 7:30-9:30. Mr Doland.

D. Social Psychology

- 25b *Introduction to Social Psychology*. The study of group behavior from the point of view of the individual, dealing with his interactions and role-relationships with other group members. The social theories of Freud and Fromm will be considered. Topics include: mass behavior, socialization, group conflict, and prejudice. Open to freshmen who have passed 11a. Th F S 11. Mr Burdick.
- 35a *Social Psychology of Attitudes and Opinions*. An investigation of factors influencing the formation and change of social judgments. The application of basic research methods of social psychology to this area. Topics include: communication, social conformity, public opinion, reference groups. Open to qualified sophomores by permission of the instructor. M T W 10. Mr Burdick.

PSYCHOLOGY

- 39a *Industrial Psychology*. Psychology of employers, employees, and consumers in regard to production, distribution, and consumption. An optional visit to a near-by factory. Open to qualified sophomores. Prerequisites 11a (or 12) and permission of the instructor. M T W 12. Mr Taylor.
- 45b *Social Psychology* (seminar). Intensive study of group dynamics. Methods, theories, and problems. Reports and discussion. Open to qualified juniors by permission of the instructor. Prerequisite, 25b or 35a or permission of the instructor. T 7:30-9:30. Mr Burdick.
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- 40a *Theories and Schools of Psychology*. Study of the principal theoretical systems with emphasis on modern schools of behaviorism, gestalt, and psychoanalysis. Th 7:30-9:30. Mr Hay.
- 40b Synoptic Course. Th 7:30-9:30. Miss Siipola with members of the Department.
- 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in psychology. *Two or three hours*.
- 42b *Advanced Theoretical Psychology*. Critical study of current theories and examination of theoretical issues involved in selected problems. Prerequisite, 40a and permission of the instructor.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51a, 51b Advanced Studies. Similar to 41a and b. *One hour or more*.
- 52a, 52b *Seminar in Current Psychological Problems*. Also for senior honors students by permission. *One hour or more*.
- 56a *Abnormal Psychology*. Students will be required to attend the lectures in 36a and 360a. Mr Taylor.

Theatre and Speech 58a *Experimental Phonetics*.

Adviser of graduate study: Mr Burdick.

THE MAJOR

Advisers: Members of the Department.

Based on six semester hours in psychology including 11a (or 12).

Essential Courses: twenty-one semester hours in psychology including 11b, 40a, and 40b.

Optional Courses: other courses in psychology and appropriate courses in other departments.

RELIGION & BIBLICAL LITERATURE

HONORS

Director: Miss Siipola.

Prerequisite: 11b. Courses in zoology, sociology, physics, and mathematics are useful as background.

Program: 40a and 31a, twelve hours in other psychology courses, and six devoted to a long paper and review; nine additional hours in psychology or related subjects.

Examinations: one on general experimental and theoretical psychology; one on other fields of psychology; one a more specialized type.

RELIGION & BIBLICAL LITERATURE

PROFESSOR:	VIRGINIA CORWIN, B.D., PH.D.
ASSOCIATE PROFESSORS:	ROBERT CRAIG, S.T.M., B.D. RICHARD PRESTON UNSWORTH, A.B., B.D.
ASSISTANT PROFESSORS:	WILLIAM FRANCIS MAY, A.B., B.D., <i>Chairman</i> BRUCE THEODORE DAHLBERG, A.B., B.D. FRANK BROWN DILLEY, B.D., PH.D. AURELIA TAKACS FULE, M.A., TH.D.

The courses in religion which may be taken to fulfill the distribution requirement are, in Group A, 21; in Group C, 14, 28b, 31a and b, 33a, 34, 35a, b, 37a.

Students who have taken 11 are eligible for courses with a prerequisite of 21.

- 14 *Introduction to the Study of Religion.* Teachings of contemporary Judaism, Roman Catholicism, and Protestantism. Religious interpretations of modern man's life and culture. For freshmen and sophomores only. Lec. Th 10. Dis. (for freshmen) M T 12, 2; Th F 2; F S 10; (for sophomores) M T 12, 3; Th F 2; F S 10. Members of the Department.
- 21 *Introduction to the Bible.* The literature of the Bible as expressing the religion of the Hebrew prophets, lawgivers, historians, and poets, and the early Christians. M T W 9, 10, Th F S 9. Miss Corwin, Mr Dahlberg, Mr Dilley.
- 23a *Religion and Social Responsibility.* The effect of religious beliefs and practices on social, economic, and political life. Religious social teaching. The role of religious institutions in the modern world. M T W 3. Mrs Fule.
- 23b *Religion and Social Responsibility.* Religious principles as a basis for criticism, policy, and action in the fields of race and intergroup relations, business and industry, government and international affairs. M T W 3. Mrs Fule.

RELIGION & BIBLICAL LITERATURE

- 25b *Greek New Testament.* Prerequisite, Greek 11, or the equivalent. Hours to be arranged. Miss Corwin.
- 27b *Life and Teaching of Paul.* Prerequisite, 21, or by permission. Offered in alternate years. M T W 12. Mr Craig.
- 28b *Judaism.* Its history and literature from the beginnings to modern times. Biblical origins, Dead Sea Covenanters, other sectarian movements, the great rabbis, philosophers, and mystics. Sociological and theological currents in the modern period. M T W 10. Mr Dahlberg.
- [29 *Biblical Hebrew.* Beginning course. Elements of grammar with readings from narratives of the Old Testament. Mr Dahlberg.]
- 31a *History of Christian Thought through the Middle Ages.* The early church fathers, Augustine, and medieval theology. Th F S 9. Mr May.
- 31b *History of Christian Thought since the Middle Ages.* The formative period in Protestantism. Development of Catholic thought. Key figures and movements to the present. Th F S 9. Mr May.
- 32b *Religion in America.* Religious thought and institutions and their influence on American culture. M T W 2. Mr Unsworth.
- 33a *Christian Ethics.* Major historical systems. Influences of religious and secular currents on the ethics of contemporary theologians. Problems of developing an ethic in modern thought. M T W 2. Mrs Fule.
- 34 *Contemporary Religious Thought.* The nature and validity of religion in the light of contemporary anthropological evidence and anti-religious thought. The positions of representative modern thinkers including Berdyaev, the Neo-Thomists, Heschel, Barth, Tillich, Baillie. M T W 11. Mr Craig.
- 35a *Hinduism and Buddhism.* Their philosophical and popular teachings about the divine, the world and man in the periods of greatest influence in India, China, and Japan. Temples, observances, and methods of inner personal development. Modern thinkers and movements. Th F S 11. Miss Corwin.
- 35b *Islam.* The formative period: Muhammed, the Quran, the law. The mediaeval mystics and philosophers. The role of Islam in the Middle East, among primitive cultures, and in India. Muslim reform and tradition in the modern world. To alternate with 39b. Th F S 11. Miss Corwin.
- 36a *Problems of the Individual in the Bible.* His rewards and sufferings, his search for mediation between God and man, based on such books as Jeremiah, Job, the Fourth Gospel, Ephesians. M T W 11. Mr Dahlberg.

RELIGION & BIBLICAL LITERATURE

- 37a *Philosophy of Religion*. A study of the world-views of religious mysticism, rationalism, naturalism, and personalism. The examination of each as a philosophical expression of man's religious concerns. Criteria of truth in philosophies of religion. M T W 10. Mr Dilley.
- [39a *Old Testament Theology*. Creation, sin, redemption and other basic themes. Hebrew concepts of God, the word, soul, history, death compared with Greek and ancient Near Eastern counterparts. Prerequisite, 21 or by permission. M T W 9. Mr Dahlberg.]
- [39b *Jesus in the Gospels*. A study of his teaching and mission based on the first three gospels. Open to students who have taken 21. To alternate with 35b. Th F S 11. Miss Corwin.]
- 40b *Religion, Its Nature and Functions* Readings and discussions. T 4-6.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in religion. *Two or three hours*.
- 42a *Existentialism and Theology* (seminar). Studies in Kierkegaard, Nietzsche and others. German and French existentialism and their influence on religious thought. By permission of the instructor. Th 4. Mr May.
- 43b *Systematic Theology* (seminar). A detailed and critical examination of the teaching of a major figure in the field of systematic theology; a comparison and a contrast with the teaching of one other such theologian. In 1961-62. Barth and one contrasting theologian. Th 4. Mr May.
- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51a, 51b Advanced Studies. *One hour or more*.
- Adviser of graduate study: Mr May.

THE MAJOR

Advisers: Miss Corwin, Mr Craig, Mr Dilley.

Based on 14 or 21.

Essential Courses: twenty-one semester hours in religion, including 40b, six hours in Biblical studies (three for those who have taken 11 before the junior year), and six hours in religious thought.

Optional Courses: other courses in religion and in related departments.

RUSSIAN LANGUAGE & LITERATURE

HONORS

Director: Mr Dahlberg.

Prerequisite: 14 or 21.

Program: six semester hours in courses or units in Biblical studies (three for those who have taken 21 before the junior year) and six in religious thought; in senior year one unit for the preparation of the paper and one for review. The greater portion of the work will be in units and courses in the Department, with work in related fields approved by the director.

Units will be conducted by means of regular conferences and special reading, and will often be planned in conjunction with existing courses.

Examinations: one in a selected field of concentration; one in the general field of the major; one oral, relating the work in the review unit to the field of the major.

Units

Studies in the Old Testament. First semester. Mr Dahlberg.

Studies in the New Testament. Second semester. Miss Corwin.

History of Christian Thought. Second semester. Mr May.

Judaism. Second semester. Mr Dahlberg.

Religion, Ethics, and Society. First semester. Mrs Fule.

History of Religions. First semester. Miss Corwin.

Philosophy of Religion. First semester. Mr Dilley.

Contemporary Religious Thought. Second semester. Mr Craig.

RUSSIAN LANGUAGE & LITERATURE

PROFESSOR:

HELEN MUCHNIC, PH.D., *Chairman*

ASSISTANT PROFESSORS:

IGOR ZELLJADT, M.A., CAND. PHIL.

SIDNEY MONAS, PH.D.

VALERIAN F. KOLESOFF, C.ENG., A.M.

INSTRUCTORS:

NATHALIE KUPRIANOFF, LEHRERDIPLOM

GALINA KRZYTSKI, M.A.

HÉLÈNE PALÉOLOGUE, LIC. ÈS L.

The courses which may be taken to fulfill the distribution requirement in Group A are 26a and b, 33, 35a and b, 36a.

RUSSIAN LANGUAGE & LITERATURE

A. Language

- 11 *Elementary Course.* Four hours. (Three class hours and one laboratory hour.) M T W 9, 10, 11, and one hour to be arranged. *Three hours each semester.* Members of the Department.
- 11b *Elementary Course.* An intensive course covering the work of two years. Seven hours (five class hours, two laboratory hours). *Six hours each semester.* M T W Th F 9 and two hours to be arranged. Mrs Kryzyski. (L)
- 21a *Intermediate Course.* Selections from Russian prose and poetry. General grammar review. Prerequisite, 11 or the equivalent. M T W 9, 10; W Th F 2. Lec. T 5. Members of the Department.
- 21b *Intermediate Course.* Selections from Russian prose and poetry. General grammar review. Prerequisite, 21a or 22a. M T W 9, 10; W Th F 2. Lec. T 5. Members of the Department. (L)
- 22a *Scientific Russian.* Reading and translation of scientific materials. Review of grammar. Mathematical and physical terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 22b *Scientific Russian.* Reading and translation of scientific materials. Chemical, biological, economic and geographic terminology. Prerequisite, 11. M T W 12. Mr Kolesoff.
- 31 *Advanced Course.* Reading from classical and Soviet literature. General review of grammar. Prerequisite, 21b, or 11b with permission of the instructor. M T W 12; W Th F 2. Members of the Department. (L)
- 38a *Advanced Reading and Composition.* Modern drama, novel, poetry. Prerequisite, 31 or 33. Mr Zelljadt. (L)
- 38b *Advanced Reading and Composition.* Prerequisite, 38a. Mr Zelljadt. (L)
- 43b *Seminar in the History of Slavic Languages.* A survey of the origin and development of the Slavic languages, their sounds, vocabulary, and grammatical forms from the beginning to the present. Lectures and analysis of selected, illustrative texts. Prerequisite, 21a and b or the equivalent or permission of the instructor. Mr Zelljadt.

B. Literature

- 26a *History of Russian Literature.* From the beginnings to Pushkin. In translation. Alternates with 35a. M T W 11. Miss Muchnic.
- 26b *History of Russian Literature.* From Pushkin to Turgenev. In translation. Prerequisite, 26a. Alternates with 35b. M T W 11. Miss Muchnic.

RUSSIAN LANGUAGE & LITERATURE

- 33 *Literature of the Nineteenth Century* (formerly 23). Development of Russian realism. Study of some typical works of Pushkin, Lermontov, Gogol, Turgenev, Dostoevsky, Tolstoy, and Chekhov, with discussion of important trends in social and aesthetic ideas which they represent. In Russian. By permission of the instructor. Prerequisite, 21a and b, or the equivalent. Mr Zelljadt. (L)
- [35a *Tolstoy*. In translation. Alternates with 26a. M T W 11. Miss Muchnic.]
- [35b *Dostoevsky*. In translation. Alternates with 26b. M T W 11. Miss Muchnic.]
- [36a *Russian Drama*. Study of the masterpieces of the Russian theatre from the beginnings to recent years, with emphasis on Gogol, Ostrovsky, and Chekhov. By permission of the instructor.]
- 40b Review Unit. Miss Muchnic.
- 41, 41a, 41b Special Studies in language or literature. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Russian. *Two or three hours.*
- 42b *Seminar in Soviet Russian Literature*. In translation. Poems, plays, and novels of selected Soviet authors considered as works of literary art and as illustrations of the social, economic, and political conditions of the period. T 4-6. Mr Monas.
- 46a *Pushkin and His Age* (seminar). Conducted in English; reading in Russian. Prerequisite, three years of Russian or the equivalent, and by permission of the instructors. *Three hours.* Mr Monas, Miss Muchnic.
- 50, 50a, 50b. Research and Thesis. *Three or six hours.*
- 51, 51a, 51b. Advanced Studies. Arranged individually.
- Adviser of Graduate Study: Miss Muchnic.

THE MAJORS

Advisers: Members of the Department.

A. Russian Major

Based on 21a, 21b.

Essential Courses: 26a, 26b, 33, 35a, 35b, 40b, History 217a, 217b.

SOCIOLOGY & ANTHROPOLOGY

Optional Courses: Other courses in Russian language and literature, Economics 319a, Government 36, Humanities, History and Social Science 493, other courses in related fields.

B. Major in Russian Civilization

Based on 11 and History 11.

Essential Courses: 21a, 21b, 26a, 26b. 35a, 35b, 40b, Economics 319a or Government 36. History 217a, 217b.

Optional Courses: 36a. 42b, further work in Russian language, Humanities, History and Social Science 493, courses in related fields.

HONORS

Director: Miss Muchnic.

Prerequisites: 21a, 21b, 26a. 26b.

Program: 33, 35a, 35b, 36a, 42b, History 217a, 217b; at least twelve hours in units and seminars in the department or in other departments within the field of correlation; a long paper in first semester of senior year to count for three hours.

Examinations: (1) on the whole field of Russian literature; (2) on Russian history; (3) on the field of correlation; (4) on language with translation from Russian into English, and from English into Russian, and a brief composition in Russian.

For students who choose honors in Russian Civilization an appropriate course in government or economics will be substituted for Russian 33 and the examination in language will be omitted.

SOCIOLOGY & ANTHROPOLOGY

PROFESSORS:	NEAL BREAULE DENOOD, PH.D. ELY CHINOY, PH.D., <i>Chairman</i>
LECTURER:	HOWARD J. PARAD, M.S. IN S.S., Director of the Smith College School for Social Work
ASSISTANT PROFESSORS:	HOWARD M. BROTZ, PH.D. PETER ISAAC ROSE, PH.D.
LECTURER:	RICHARD SLOBODIN, PH.D.
INSTRUCTOR:	JAMES WILLIAM FERNANDEZ, B.A.
FACULTY FELLOW:	MARTHA RICHMOND BLADEN, A.B.

Among the courses which may be taken to fulfill the distribution requirement in Group E are 11a and either 11b, 12b, or 23b, and Social Science 192.

SOCIOLOGY & ANTHROPOLOGY

Students planning to major or to do honors work in the department are advised to take introductory courses in one or more of the following fields: economics, government, history, philosophy, and psychology.

Students who plan to enter the field of social work should consult Mr Parad regarding desirable courses.

Grade III courses, except 312a, are open to sophomores with prerequisite and permission of the instructor.

The prerequisite for all Grade II and III courses, unless otherwise specified, is 11a, or Social Science 192.

- 11a *Introduction to Sociology and Anthropology.* Society, culture, and human behavior. Major institutions and forms of social organization: family, classes and ethnic groups, bureaucracy, property, power, religion, community. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Chinoy (*Director*), and members of the Department.
- 11b *Industrial Society.* Comparative analysis of culture, social structure, and institutions in industrial societies, with material drawn chiefly from Great Britain, the Soviet Union, and the United States. Problems of integration, conflict, and change. Prerequisite, 11a. Not open to students taking Social Science 192. M T W 10, 11, 12, 3; Th F S 11. Lec. M 10, when scheduled. Mr Chinoy (*Director*), and members of the Department.
- 12b *Primitive Peoples of the World.* Descriptive survey of selected primitive societies illustrating the variety of cultural responses to universal human needs. Levels of complexity in social organization and the relationship between technology and environment. Prerequisite, 11a. M T W 10. Mr Slobodin.
- 21a *The City.* Comparative study of cities; social relations in the city; problems of urban and suburban growth and development; the urbanization of American society. M T W 2. Mr Rose.
- 23b *Cultural Anthropology.* A study of the nature of culture and of selected aspects of culture: kinship, marriage, political systems, religion, and art. Based upon materials from tribal and peasant societies. M T W 12. Mr Slobodin.
- 32a *Social Disorganization.* Theory of social disorganization; delinquency, crime, and related problems. Open also to students who have passed Psychology 11a. Th F S 9. Mr DeNood.
- 32b *Social Disorganization.* Family disorganization; mental deficiency and pathology; and related problems. Optional field trip. Open also to students who have passed Psychology 11a. Th F S 9. Mr DeNood.

SOCIOLOGY & ANTHROPOLOGY

- 33b *Culture and Society in Negro Africa.* Comparative analysis of selected traditional cultures in Negro Africa. Influence of climate, population, race, and pre-history. Problems of emergent Africa in the light of traditional forms of social life. M T W 9. Mr Fernandez.
- 34a *Culture Contact and Change.* Anthropological analysis of contact between Western and non-Western cultures and current social changes. Cases selected from Latin America, Africa, and the Middle East. Alternates with 36a. M T W 11. Mr Slobodin.
- 35a *Family and Society.* Structure and functions of the modern family. Analysis of courtship, marriage, and family life in American society. M T W 9. Mr Rose.
- [36a *Culture Contact and Change.* Similar to 34a. Cases selected from Asia and the Pacific. Alternates with 34a. M T W 11. Mr Slobodin.]
- 37b *Minorities.* Social organization of a multi-racial and ethnically diverse society. Cultural and political problems in racial and ethnic relations. Racial nationalism. Internal organization of minorities in different settings. M T W 2. Mr Brotz.
- 38b *The Sociology of Social Planning.* Study and analysis of social planning in health, education, recreation, welfare, housing, and community reorganization. Emphasis on twentieth-century developments in the United States. Th F S 11. Mr DeNood.
- [39a *Social Work in the American Community.* Development and theory of modern social services; the basic processes: casework, group work, and community organization. Prerequisite, the introductory course in economics, government, psychology, sociology, or Social Science 192. M T W 10. Mr Parad.]
- [310a *Religion and Society.* Relation of religious organization and beliefs to social and cultural factors. Major sociological and anthropological interpretations of magic and religion. Selected problems in primitive religion and Christianity. M T W 9.]
- 311a *Class Structure in American Society.* Analysis of the American class system, with particular emphasis upon the nature and role of the middle class. The social and political consequences of economic stratification, status systems, and social mobility. M T W 3. Mr Chinoy.
- 312a *Selected Sociological Theories.* Critical analysis and application of theories of Durkheim, Sumner, Simmel, Cooley, Weber, Thomas, and Znaniecki. Th F S 11. Mr DeNood.
- [313b *The Sociology of Occupations.* Analysis of occupational roles and the social organization of work. Professionalization; bureaucracy and white collar em-

SOCIOLOGY & ANTHROPOLOGY

- ployment; automation and manual labor. Consideration of the problems of gainfully employed women. M T W 3.]
- [324b *Population Problems and Policies.* The crucial role of population in current world developments. Trends and significance of basic factors: births, deaths, and migration. Population quality. Comparative survey of the population situation and policies in important areas of the world. Prerequisite, completion of Group E distribution requirement. To be given in 1962-1963. Mr Mair.]
- 329b *Native Cultures of North America.* Cultures of the Eskimo and the major American Indian societies north of the Rio Grande, with some reference to Middle American high cultures. Survey of the history of native people on this continent since European settlement. Open to students without prerequisite by permission of the instructor. M T W 3. Mr Slobodin.
- 40b *Problems of Scope and Method.* Theory and research in contemporary sociology and anthropology. For seniors majoring in the department. T 4-6. Mr Chinoy (Director).
- 41a, 41b Special Studies. By permission of the Department for senior majors in the department. *Three hours.*
- 43b *Seminar in Social Research.* The logic and methods of social research and research techniques; their application to specific projects of current interest. By permission of the instructor. Mr Rose.
- 44b *Seminar in Social Institutions.* Structure, functions, dynamics, and integration of contemporary institutions. By permission of the instructor. Mr DeNood.
- 45a *Seminar in Culture and Politics.* The influence of capitalism, science, and democracy upon the institutions and culture of modern society. By permission of the instructor. Mr Brotz.
- [46a *Seminar in Sociological Analysis of Popular Culture.* Emergence of popular or "mass" culture and its implications for individual and society; analysis of trends in recreation, entertainment, and mass media of communication. By permission of the instructor.]
- 47a *Seminar in Social Disorganization.* Theories of social disorganization and their application to selected problems of crime and delinquency, family disorganization, and the social aspects of mental health. By permission of the instructor. Mr DeNood.
- HISTORY AND SOCIAL SCIENCE 495b. *Interdepartmental Seminar in Economics, Government, History, and Sociology.* The Military and Society. A comparative and historical study of the relationship between the armed forces and the social and political order in the United States, Europe, and Latin America. Social composition and ideology of the military, its social and political role, the

SOCIOLOGY & ANTHROPOLOGY

problem of civilian control. Historical, economic, ideological, and political forces affecting conceptions of military strategy. Mr Chinoy, Mr Rothman.

51a, 51b Special Advanced Studies in such subjects as advanced theory social organization and disorganization culture contacts, problems of scientific methodology. *One hour or more.*

Adviser of graduate study: Mr Chinoy.

THE MAJOR

Advisers: Mr Chinoy, Mr Brotz, Mr Rose, Mr Slobodin, Mr DeNood.

Based on one of the following: 11a and either 11b, 12b, or 23b; Social Science 192 and 12b or 23b.

Essential Courses: twenty-one semester hours in the department including 312a and 40b.

Optional Courses: other courses in the department; appropriate courses in allied departments.

Majors may spend the junior year abroad if they meet the college requirements as stated in the description of the Junior Year Abroad.

HONOR

Director: Mr Chinoy.

Prerequisite: Candidates are urged to take introductory courses in two or more of the following fields: economics, government, history, philosophy, psychology.

Program: units, seminars, and courses, including six hours in theory, preferably in junior year; three or six hours for a long paper in first semester of senior year; three hours for directed reading and review in the second semester; and fifteen additional hours in the department and related fields.

Examinations: three, in selected fields of concentration and sociological theory.

Units

The units will count normally for three hours each.

[*Basic Sociological Theory*. First semester.]

Current Problems in Social Theory. Second semester. Mr Chinoy.

[*Social Organization*. First semester. Mr Chinoy.]

[*Culture and Personality*. First semester. Mr Slobodin.]

Primitive Myth and Ritual. First semester. Mr Fernandez.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

PROFESSORS:	KATHERINE REDING WHITMORE, D.LIT. (MADRID) JUAN BAUTISTA AVALLE-ARCE, PH.D.
ASSOCIATE PROFESSORS:	HELEN JEANNETTE PEIRCE, M.A., <i>Chairman</i> JOAQUINA NAVARRO, PH.D.
ASSISTANT PROFESSOR:	‡ ERNA RUTH BERNDT, PH.D.
INSTRUCTORS:	AMPARO GONZÁLEZ NICOLAU, LIC. EN FILOSOFÍA Y LETRAS NATALIA MARRUJO RUIZ, B.A.

The course in Spanish which may be taken to fulfill the distribution requirement in Group A is 25.

The following preparation is recommended for students who intend to take the Spanish or Latin-American major: courses in classics, either in the original or in translation; courses in other European literatures and history; a reading knowledge of another foreign language.

PORTUGUESE

- [21 *Elementary Portuguese*. Prerequisite, two years of Spanish or permission of the instructor. Miss Peirce.]
- [22a, 22b *Reading of Modern Portuguese Prose*. Prerequisite, 21. One hour. Miss Peirce.]

SPANISH

A. Language

- 11 *Elementary Course*. M T W 3; Th F S 9, 10, and one hour to be announced. Members of the Department.
- 11b *Elementary Course* (covering the work of two years). Six hours each semester. M T W Th F 11, and one hour to be arranged. Members of the Department. (L)
- 12 *Intermediate Course*. Grammar review and reading of modern prose. Prerequisite, two units in Spanish or 11. M T W 10; Th F S 9. Members of the Department. (L)
- 13 *Grammar, Composition, and Reading*. Discussion of modern Spanish novels, plays, and poetry. Prerequisite, three units in Spanish. M T W 9; Th F S 11. Members of the Department. (L)

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 21a *Prose Composition.* Prerequisite, 11b, 12, 13, or 16. Th F 2 and one hour to be arranged. Miss Peirce.
- 31b *Advanced Prose Composition.* Prerequisite, 21a. Th F 2. One hour to be arranged.
- [33b *Advanced Translation into English.* The material to be translated will be taken from current publications, letters, technical articles.]
- [413a or 413b *Teachers' Course.* Review of Spanish grammar. Discussion of methods. Practice teaching. Prerequisite, 21a or 25.]

B. Conversation

- [14a, 14b *Conversation.* Two class hours. One hour. M T 3.]
- 24b *Theoretical and Practical Phonetics.* Exercises in hearing and pronunciation. Open to students who plan to spend their junior year in Madrid and to others by permission. Two class hours. One hour. M T 12.

C. Literature

The prerequisite for courses of Grade III in this division is 25.

- 16 *A Study of Some Aspects of Spanish Life and Culture.* Reading in Spanish, discussion in English. Prerequisite, three units in Spanish or 12 or 11b. Th F S 11. Mrs Ruiz. (L)
- 25 *Reading of Modern Novels, Plays, and Poetry.* Prerequisite, four units in Spanish, 11b, 12, 13, or 16. M T W 10; Th F S 12. Members of the Department. (L)
- [34a *Masterpieces of Spanish Literature to the Beginning of the Sixteenth Century.*]
- 35b *Literature of the Spanish Renaissance* Garcilaso de la Vega, Fray Luis de León, San Juan de la Cruz. Th 4-6, F 4.
- 36a *Cervantes: Don Quijote.* Th 4-6, F 4. Mr Avalle-Arce.
- 36b *Drama of the Seventeenth Century.* Lope de Vega, Tirso de Molina, Calderón. Mr Avalle-Arce.
- 37a *Nineteenth Century: The Romantic Period.* M T W 11. Miss Navarro.
- 37b *Nineteenth Century: The Modern Novel.* M T W 12. Mrs Whitmore.
- 38a *Contemporary Spanish Literature.* M T W 12. Mrs Whitmore.

SPANISH & PORTUGUESE LANGUAGES & LITERATURES

- 310a, 310b *South American Literature*. A study of representative works and authors from the colonial period to the present. Recommended background, History 13 or 325a. Th F 3 and one hour to be arranged. Miss Peirce.
- 40b Correlation of work in the major field.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in Spanish. *Two or three hours*.

D. Graduate Courses

Students who wish to do graduate work in the Department are required to have a knowledge of Latin.

- 50, 50a, 50b Research and Thesis. *Three or six hours*.
- 51, 51a, 51b Advanced studies in Spanish literature, arranged in consultation with the adviser of graduate study, on subjects such as poetry of the Golden Age, Cervantes, Tirso and the Spain of his epoch, nineteenth- and twentieth-century prose.
- 52 *History of the Spanish Language*. Miss Navarro.
- 53a or 53b *Spanish Bibliography and Literary Methods*.
- 54a *Spanish Poetry since 1898*. A detailed examination of the main currents of Spanish contemporary poetry from Unamuno to Lorca emphasizing stylistic analysis.
- 56b *Techniques of the Spanish Golden Age Novel*. Main trends of the Spanish Golden Age novel. Stylistic devices, problems in characterization and literary acculturation. Close analysis of several novels. Mr Avallé-Arce.

Adviser of graduate study: Mr Avallé-Arce.

THE MAJORS

A. *The Spanish Major*

Adviser: Mrs Whitmore.

Based on 11d, 12, 13, or 16.

Essential Courses: from Division A, 21a and 31b, except for students who have been Juniors in Spain; from Division C, 40b and nine semester hours above Grade II normally so distributed as to include work in each of the three major periods.

Optional Courses: other Spanish courses above Grade I or courses in related departments.

THEATRE & SPEECH

B. The Latin-American Major

Adviser: Miss Peirce.

Based on 11b, 12, 13, or 16.

Essential Courses: 310a, 310b, 40b; History 325a.

Optional Courses: 31b, any Grade III course from Division C; Portuguese 21, 22a and b; History 420b; Geology 32a; Sociology and Anthropology 34a; any course of Grade III or IV treating some phase of Latin-American Civilization.

HONORS

Director: Miss Peirce.

Prerequisites: 11b or the equivalent; 25 and, if possible, 21a and 31b.

Program:

Minimum requirement: one unit in language before second semester of senior year; a paper and review in senior year.

Optional courses or units to be selected in consultation with the director.

Examinations: (a) on the whole field; (b) on a special field; (c) on a great writer *not* of the special field.

THEATRE AND SPEECH

PROFESSOR:	WILLIAM DENIS JOHNSTON, M.A., LL.M., <i>Chairman</i>
ASSOCIATE PROFESSORS:	**EDITH BURNETT, B.S. †DE TON M. SNYDER, M.A. ‡MARTHA COLEMAN MYERS, M.S. IN PHY. ED. WILLIAM EDWARD HATCH, M.A.
ASSISTANT PROFESSORS:	CHARLOTTE H. FITCH, A.M., <i>Director of Speech</i> VINCENT C. BRANN, A.M.
VISITING LECTURER:	CLARENCE V. HUDGINS, PH.D.
INSTRUCTORS:	BEVERLY WILSON MAY, M.F.A. JACQUES CARTIER, M.F.A.

The courses in Theatre which may be taken to fulfill the distribution requirement are, in Group A, 23a and b and, in Group B, 11.

THEATRE & SPEECH

THEATRE

DIVISION A. Historical and Theoretical Courses

- 11 *Introduction to the Theatre.* An analysis of the basic elements of the theatre and its allied mediums. Types of theatre building, elements of the art of the actor, the director, the designer, and the dramatist from the beginning to the present day. M T W 11. Members of the Department, first semester; Mr Cartier, second semester.
- 23a, 23b *Forms of the Drama.* A study of the principal forms, with special attention to the history and development of the theatre and its greatest plays from the Greeks to Chekhov. M T W 10. Mr Cartier.
- 31b *American Theatre and Drama.* Origin and early growth; evolution of an American style in theatrical art; development of American drama, especially since 1914. Emphasis on plays from Eugene O'Neill to Tennessee Williams. M T W 12. Mr Brann.
- 35a, 35b *Modern European Drama.* A study of European plays and playwrights from Strindberg to Brecht and Beckett. The experiments of Pirandello and of the Expressionists. The Irish theatrical renaissance. The theatre of Giraudoux, Anouilh, and Ionesco, and of post-war Britain. M 4-6. Mr Johnston.
- [45a *Theatre Criticism.* A course designed to provide a basis for criticism of theatre; theories of criticism applied to the play and production. Recommended background, 11.]
- 46b *Shaw.* A study of his works, with special emphasis on their interrelation, and of this playwright's special contribution to the theatre. Th 4-6. Mr Johnston.

DIVISION B. Theatre Practice

Not more than six hours in 12a, 12b, 24a, 24b may be counted toward the 120 hours required for the degree.

- 12a, 12b *Dance and Mime.* Technique and elementary composition. Prerequisite for 12b, 12a. T 9; four supervised practice hours, Th F 11-1. Miss Burnett, first semester; Mrs Myers, second semester.
- 22a, 22b *Technique—Dance and Mime.* One hour each semester. Th 4-6. Miss Burnett, first semester; Mrs Myers, second semester.

THEATRE & SPEECH

- 24a *Acting*. Exercises in concentration, imagination, and observation, preparatory to a study of the actor's approach to a role. Lecture-recitation and one laboratory hour of practice in basic movement for stage action. M 9-11, W 9. Miss Burnett.
- 24b *Mounting the Play*. A study of general architectural features of theatres that bear upon the problems of mounting plays and the fundamental techniques and methods of production. M 9-11, W 9. Mr Hatch.
- 32a *History of Dance*. A survey with practice in selected period forms. Lec. M 11-1; studio hours, T W 11-1. Miss Burnett.
- 32b *Choreography*. Advanced course designed to emphasize individual and group creative expression through the medium of modern dance. Technique, original composition, and production. Prerequisite, 32a. Six studio hours. M T W 11-1. Mrs Myers.
- 33 *Acting*. Advanced techniques for the interpretation of contemporary and classical dramatic literature. Scenes and exercises. Prerequisite, 24a. or by permission. Recommended background 12a, 12b. Lec.-rec. M 9-11, lab. W 9. Mrs May.
- *34a, 34b *Scene Design*. A study of pictorial organization for the support of action and characterization in the production of plays with emphasis on designing the space, the lighting, the costumes, and the decor. Prerequisite, 24b. Prerequisite for 34b, 34a, or permission of the instructor. T 2, Th 2-4. Mr Hatch.
- 37a [37b] *Play Analysis and Creative Writing for the Dramatic Mediums: Theatre, Radio, and Television*. The student will have either practice in writing for one of these mediums or will study the theoretic elements of play structure and dramatic composition. M W 3. Mr Johnston.
- [39] *Radio*. History, principles, and techniques of radio production. Practical experience in selected types of radio programs. Four class hours. M Th 4-6.]
- *44a, 44b *Directing*. The study and application of directorial techniques: casting, rehearsal, movement and grouping, stage business, and dramatic interpretation. Assignments and projects in 44a based on contemporary plays; in 44b based on classical plays. Prerequisite for 44a, 33 or 34a; for 44b, 44a. T 3, Th 11-1. Mr Cartier.

*Six hours of crew work per week will be required during each of the four-week preparation periods for the major productions.

THEATRE & SPEECH

DIVISION C. Speech

- 13a *Voice Theory and Practice.* The historical, physiological, and phonetic bases of speech. Intensive work on the improvement of the individual speaking voice. Projects in various forms of oral communication. Individual conferences and recordings. M T W 11. Miss Fitch.
- 13b Repetition of 13a. M T W 10.
- 21a *Voice Training.* A laboratory course adapted to individual voice and articulatory needs. Voice recordings. Open to freshmen by permission of the instructor. Two class hours. *One hour.* M T 2. Miss Fitch.
- 21b Repetition of 21a. Th F 12.
- 25a *Speech in Public Affairs.* Principles of speech in three main areas: expository speaking, argumentation, and group discussion, and their practical application in the consideration of contemporary problems. M T W 10. Mr Brann.
- 25b Repetition of 25a. Open to freshmen who have had 13a. M T W 11. Mr Brann.
- 26a *Oral Interpretation of Literature.* Principles and techniques of oral interpretation. Study and oral presentation of selected literary forms. Recommended background, 13a or b. M T W 11. Mrs May.
- [26b Repetition of 26a. Open to freshmen who have had 13a. M T W 11.]
- 27b *Voice Training.* Continuation of 21a. M T 2.
- 36b *Play Reading.* Theory and techniques of play reading as an art form. Study and presentation of selected plays from world drama. Recommended background, three semester hours preferably in 26a or b. M T W 12. Miss Fitch.
- 414a *Speech for the Classroom Teacher.* The development of speech in the child, problems of defective speech, speech arts in the classroom, and the speech of the teacher. Voice recordings. Th F 12 and an hour for practice and observation to be arranged. Miss Fitch.
- 414b *Oral Interpretation of Children's Literature.* A critical study of children's literature. The techniques of its oral interpretation. Practical experience in storytelling, reading aloud, and other forms of classroom presentation. Individual voice and speech practice. Open to juniors. M T W 11. Mrs May.
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- 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in theatre. Members of the Department.

THEATRE & SPEECH

Graduate Courses in Theatre and Speech

- 50, 50a, 50b Research and Thesis. *Three or six hours.* Members of the Department.
- 51a, 51b Advanced Studies arranged in consultation with the Department. *One hour or more.*
- 52 *Rehearsal and Production.* Theory and practice on Department productions; advanced work in direction, acting, lighting, stage design, choreography, and dance. *Three or six hours each semester.* Members of the Department.
- 58a *Experimental Phonetics.* The methods and subject matter of experimental phonetics and their application in speech teaching and speech correction, with special reference to the speech of the deaf. Prerequisites, a fundamental course in speech and Physics 11 or Psychology 11a, or permission of the instructor. Mr Hudgins.

Adviser of graduate study: Mr Brann.

THE MAJOR

Adviser: Mr Johnston.

Based on 11, and the passing of a required speech test which should be taken before the second semester of the sophomore year.

Essential Courses: 44a and b, and twelve hours in Theatre, of which at least nine hours must be from Division A.

Optional Courses: Other courses in Theatre, or courses in other departments.

A winter field trip of two days for majors and graduate students.

HONORS

Director: Mr Johnston.

Prerequisites: 11.

Program: The requirement will consist of

- (1) a course of study arranged for the junior and senior years with emphasis on techniques of production, dance, theatre history, or creative writing and research. Students may combine this basic work with courses in art, English, languages, music, speech, theatre, or any other field approved by the director.
- (2) An independent piece of work counting for six hours which may take the form of a thesis in the literature, art, or history of the theatre; an original play; creative work in design, acting, direction, or stagecraft.

Examinations: two written and one oral along the following lines: historical, theoretical and literary, technical.

ZOOLOGY

PROFESSORS:	ERNEST CHARLES DRIVER, PH.D., <i>Chairman</i> LOIS EVELYN TE WINKEL, PH.D. ESTHER CARPENTER, PH.D., D.SC. (HON.) ELIZABETH SANDERS HOBBS, D.SC.
ASSOCIATE PROFESSORS:	*B. ELIZABETH HORNER, PH.D. GEORGE WARREN DE VILLAFRANCA, PH.D.
ASSISTANT PROFESSOR:	HERBERT RICHARD BARGHUSEN, PH.D.
INSTRUCTORS:	AMELIA POLNIK, PH.D. MARGARET LYNN WILSON, A.B., M.D. ELAINE JEVELY LANGLOIS, M.A.T.
TEACHING FELLOWS:	ROSALIND MARIE VAN LANDINGHAM, A.B. IRENE VIRGINIA BROWN, B.S. YU HSIN SHIH
RESEARCH FELLOW:	RUTH SHER NIRENSTEIN, B.S.

Among the courses which may be taken to fulfill the distribution requirement in Division III are 11, 12, Biological Science 195.

Students planning to major in zoology are advised to take 11 in freshman year and general botany or chemistry before the junior year. See also preparation required for honors work.

- 11 *General Zoology.* Introduction to the study of animals, including the fundamental principles of biology and a comprehensive survey of the animal kingdom. Laboratory work consists of dissection, experiments, and practice in the use of the microscope. Two lectures and two two-hour laboratory periods. Lec. Th F 2. Lab. M T 9, 11; Th F 9, 11. Mrs Hobbs, Miss Carpenter, Mr Barghusen, Mrs Langlois.
- 11b The second semester of 11 for students who have passed 12, Biological Science 195, or Botany 11. Hours and instructors as in 11.
- 12 *The Anatomy and Physiology of Man and Other Mammals.* A study of the structure and functions of systems for support, motion, nutrition, reproduction, control, and integration. Two lectures and two two-hour laboratory periods. Lec. Th F 11. Lab. M T 9, 11, 2, 4; Th F 9, 2. Miss Te Winkel, Miss Polnik, Miss Wilson.
- 22 *Comparative Anatomy of Vertebrates.* Comparison and probable evolution of structures in a series of chordates from amphioxus to mammal. Prerequisite, 11, 12, or Biological Science 195; open to geology majors by permission of the instructor. Two lectures and two two-hour laboratory periods. Lec. M T 11; lab. Th F 9, 2. Miss Horner, Mr Barghusen.

- 23b *Invertebrate Zoology*. A study of a wide variety of invertebrate animals with emphasis on their interesting features as individual animals, their relationships to each other, their use in biological and medical research, and their effect on man. Prerequisite, 11, 11b, or by permission of the instructor. Two hours of lecture, four hours of laboratory. M T 2-5.
- 32a *Vertebrate Physiology*. A study of nutrition, digestion, circulation, metabolism, and excretion in man and other vertebrates. Prerequisite, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Miss Wilson.
- 32b *Cellular Physiology*. A study of contractility, irritability, conductivity, permeability, and respiration at the cellular level. Prerequisites, 11 or 12 and Chemistry 11 or 12. Two lectures and four hours of laboratory. Lec. M T 9; lab. T 2-6. Miss Wilson.
- 33a *Embryology*. A study of fertilization, cleavage, gastrulation, and the early development of organ systems in amphibians, birds, and mammals. Prerequisite, 22, or by permission of the instructor. Two lectures and four hours of laboratory. Lec. Th F 2; lab. Th F 3-5. Miss Te Winkel.
- [34a *Entomology*. Introductory study of insects, with field trips. Prerequisite, 11. Th F 11-1 and two hours of independent work.]
- 36b *Genetics*. A study of the principles of inheritance of likeness and variation with some application to man. Prerequisite, a Grade I course in zoology, botany, or Biological Science 195. Open to students majoring in sociology or education by permission of the instructor. Two lectures, two two-hour laboratory periods. Th F 2-5. Miss Polnik.
- 37a *Histology*. A study of animal tissues including their origin, differentiation, functions, changes with environment and with age, and their arrangement in organs. Prerequisite, 11, 12 or 22. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.
- 37b *Microscopic Anatomy of the Endocrine System*. A study of the development, comparative histology, and changes with environment and with age of the glands of internal secretion. Prerequisite, 37a. Lec. or dem. Th F 9; lab. Th F 11-1. Miss Carpenter.
- 38 *Animal Taxonomy and Ecology*. Field and laboratory work on animal identification and habits. Lectures on early American naturalists, methods of nature study, and wild-life conservation. Prerequisite, a course of Grade I in zoology or botany or Biological Science 195. Two lectures and four hours of laboratory or field work. Lec. M T 2; lab. M T 3-5. Mr Driver.

ZOOLOGY

- 311a *Protozoology*. Free-living and parasitic protozoa and their relationships to other animals including man. Prerequisite, 11, 12, or Biological Science 195. Open to sophomores by permission of the instructor. Th F 9-12. Mrs Hobbs.
- 40b Unit. Members of the Department.
- 41, 41a, 41b Special Studies. By permission of the Department for senior majors who have had twelve semester hours above Grade I in zoology. *Two or three hours.*
- 42b *Enzymology*. A study of metabolic pathways with emphasis on enzymes and coenzymes. Prerequisites. 32a or b and Chemistry 21. Two lectures and four hours of laboratory. Lec. Th F 9; lab. M 2-6. Mr de Villafranca.
- 43a *Development of Zoological Concepts*. Study of man's continuous effort to analyze and reduce to system the knowledge of living organisms and to interpret the phenomenon of life, with special attention to the development of the concept of species and theories of evolution. Open, by permission of the instructor, to students not majoring in zoology. Lec. M T W 11. Mr Driver.
- 44b *Experimental Embryology*. A study of theories of fertilization, development, differentiation, and regeneration and their experimental basis. Prerequisite, 33a. Two hours seminar, two hours of scheduled laboratory, and two hours of independent work. Lec. F 2-4; lab. Th 2-4. Miss Te Winkel.
- [45b *Vertebrate Paleozoology*. A study of fossils to show the development of vertebrate life in the past, including consideration of changes in morphological level of development, composition of faunae, and environmental conditions. Prerequisite, 22, or by permission of the instructor. Lec. M T 11; lab. and three field trips to be arranged.]

Research Courses

In these courses the work is individual and involves, in addition to the laboratory work upon which it is based, extensive reading and conferences with the instructor at stated intervals. A reading knowledge of French and German is desirable. *Two hours or more each semester.*

50, 50a, 50b Research and Thesis. *Three or six hours.*

51, 51a, 51b Advanced Studies. *One hour or more.*

52a, 52b *Embryology*. Prerequisite, 33a. Miss Te Winkel.

53, 53a, 53b *Anatomy* (prerequisite, 22) or *Ecology* (prerequisite, 38). Mr Driver, Miss Horner.

ZOOLOGY

54a, 54b *Recent Advances in Zoology* (seminar). Reading and individual reports.
One hour each semester.

[55b *Invertebrate Physiology*. Prerequisite, 23b, or by permission of the instructor.]

[56, 56a, 56b *Entomology*. Prerequisite, 34a.]

[57a *Muscle Physiology*. A seminar in the physiology, cytology, and biochemistry of muscle. Prerequisite, 32b and Chemistry 21. Mr de Villafranca.]

58a, 58b *Histology and Cytology* (prerequisite, 37a); 58 *Tissue Culture* (prerequisites, 37a and b). Miss Carpenter.

59 *Genetics*. Prerequisite, 36b. Miss Polnik.

510, 510a, 510b *Protozoology*. Prerequisite, 311a. Mrs Hobbs.

Adviser of graduate study: Miss Te Winkel.

THE MAJOR

Advisers: Mr. Driver, Miss Te Winkel, Mrs Hobbs, Miss Horner.

Based on six hours of zoology or Biological Science 195. If based on a course other than 11, 11b or 23b must be taken later.

Essential Courses: 22, 40b, and a minimum of fifteen semester hours in zoology above Grade II.

Optional Courses: other courses in zoology; related courses by permission of the adviser.

HONORS

Director: Miss Horner.

Prerequisites: 11, 11b, or 23b and 22; Chemistry 11 or its equivalent. Normally these courses should be taken before junior year.

Program: to be arranged with the director and to include fifteen hours in zoology above Grade II plus three hours throughout the senior year on an individual problem, paper, and review.

Examinations: two will cover the general field, the third may be of a specialized character.

INTERDEPARTMENTAL MAJORS

AMERICAN STUDIES

Adviser to the major: Mr Aaron.

This major aims to bring into a single focus certain courses which explore the history of American culture in its broadest sense.

Based on History 11 (or another college course in European History approved by the adviser) and History and Social Science 293 or English 212.

Essential Courses:

Six hours chosen from History 319a, 319b, 320b, 321a, 321b, 322a, 322b, 327b, 328a, 414b, 415a, 415b, 416b or, with the permission of the adviser, other relevant courses in history.

Twelve hours from English 321a, 321b, Art 313a, 313b, Government 31b, 327b, Religion 32b, Education 36b, Philosophy 310a, Theatre 31b, or, with the approval of the adviser, relevant courses in government, economics, sociology, art or English.

Six hours:

American Studies 31a. Contributions of particular fields to the study of American civilization as a whole. For juniors majoring in American Studies.

American Studies 40b. *Integrating Course.*

Eighteen hours must be taken in one department. Prerequisites for the major may not be counted in this total, but courses not listed among the "Essential Courses" may be included.

It is recommended that students also elect courses dealing with European civilization.

HONORS

Director: Mr Aaron.

Honors students in American Studies must register for 31a and 40b. Their programs must include at least one unit or seminar in their junior and their senior years, the writing of a long paper, and comprehensive examinations.

SCIENCE

The interdepartmental majors in science are designed as preparation for (1) professional schools such as medicine, public health, or nursing; (2) graduate study in those fields which involve a thorough knowledge of more than one science, *e.g.*, biochemistry, biophysics, or bacteriology; (3) laboratory work. Because it is ad-

INTERDEPARTMENTAL MAJORS

vantageous to have basic training in chemistry, physics, zoology, and mathematics, it is urged that the student see the advisers of these majors as early as possible in freshman year.

Students planning to enter schools of nursing may consult Mrs Hobbs for information concerning entrance requirements for these schools.

BACTERIOLOGY

The Interdepartmental Major may be found in the offerings of the Department of Bacteriology and Public Health.

BIOCHEMISTRY

Adviser to the major: Mr de Villafranca, Mr Soffer.

Essential Courses: Bacteriology 22; Chemistry 11 or 12, 21, 31a, 42a and three additional hours of chemistry; Zoology 12 or 22, 32a and b, 42b.

(Chemistry 42a and Zoology 42b will serve as the integrating courses in this major.)

Optional Courses: other courses in chemistry, bacteriology, zoology, physics, mathematics, or botany with the approval of the adviser.

HONORS

Directors: Mr de Villafranca, Mr Soffer.

Prerequisites, normally taken before junior year: Chemistry 11 or 12 and 21; Mathematics 12, 13 or 14; Zoology 12 or 22.

Program:

Requirements: Bacteriology 22; Chemistry 11 or 12, 21, 31a, 42a and three additional hours of chemistry; Mathematics 12, 13 or 14; Physics 11 or 15; Zoology 12 or 22, 32a and b, 42b; three hours throughout senior year on a problem, paper, reading, and review.

Optional Courses: courses in chemistry, physics, bacteriology, zoology, mathematics, or other related fields by permission of the director.

Examinations: one in chemistry, one in physiology, one selected according to the student's program.

PREMEDICAL SCIENCE

Adviser to the major: Mrs Hobbs.

The courses listed represent the minimum requirement for entrance to most medical schools, but as these differ from one another it is advisable for students to decide in the spring of freshman year which school they plan to enter and include any addi-

INTERDEPARTMENTAL MAJORS

tional courses necessary. Thirty hours in the major are required in the three upper years of which eighteen must be above Grade II.

40b Directed reading in the history of medicine from the standpoint of concurrent developments in chemistry, physics, and zoology.

Essential Courses: Chemistry 11 or 12, 21, 31a; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; Zoology 22; Premedical Science 40b; a college course or its equivalent in German, French, Russian, or Spanish.

Optional Courses: other courses in chemistry, physics, mathematics, or zoology. Sociology 32a, 32b, or Psychology 36a and 360a may be substituted with the permission of the adviser.

Students may also prepare for medical schools by majoring in any department, if they include in their schedules the courses suggested above as the minimum requirement. They may consult the adviser of this major about their choice of courses.

HONORS

Director: Mrs Hobbs.

Prerequisites, normally taken before junior year: Chemistry 31a; Physics 11; Zoology 11 or Biological Science 195 or an equivalent; a college course or its equivalent in German, French, Russian, or Spanish.

Program:

Requirements: Chemistry 21; Mathematics 12 or 13; Zoology 22; three hours throughout senior year on individual work, directed reading, and review.

Optional Courses: courses in chemistry, physics, zoology, mathematics, or bacteriology. Sociology 32a, 32b, or Psychology 36a and 360a may be substituted with the permission of the director.

Examinations: one in chemistry, one in zoology, one selected according to the student's program.

Graduate Study

Smith College offers to graduate women programs leading to the degrees of Master of Arts, Master of Arts in Teaching, Master of Education, and Master of Science in Physical Education. A cooperative PH.D. program has been established by Amherst, Mount Holyoke and Smith Colleges and the University of Massachusetts. Students interested in this program should write to the Dean of the Graduate School, University of Massachusetts, Amherst, Massachusetts. For foreign students, programs for a Certificate of Graduate Studies are available. Ordinarily about one hundred women students are registered for advanced instruction, which is available in most departments of the College and in various interdepartmental fields.

Students at Smith College who have received a baccalaureate degree from a college or university of recognized standing are under the jurisdiction of the Committee on Graduate Study. They fall into two categories: (1) Graduate Students—those who present evidence of high scholarship, promise of satisfactory ability to pursue advanced study and research, and an adequate background in the field in which they intend to seek a degree; (2) Special Students—those college graduates, men or women, who are receiving instruction in the college without reference to the attainment of an advanced degree. Such students need only the approval of the instructor(s) concerned and the Director of Graduate Study.

The requirements for the degrees of Master of Arts, Master of Education, and Master of Arts in Teaching may be fulfilled in one year by well-prepared full-time students; for the Master of Science in Physical Education, in two years (in one year by specially qualified students).

FELLOWSHIPS AND SCHOLARSHIPS

The College offers several fellowships and scholarships which are open to graduates of Smith College and to women graduates of other colleges of good standing. Special scholarships are available for study in education and in physical education. Other fellowships are offered to students from foreign countries.

The science departments and the departments of music and theatre offer teaching fellowships and graduate assistantships for part-time graduate study combined with departmental assistance.

INFORMATION

Full information concerning the requirements for the various advanced degrees, admission, residence fees, and fellowships is given in the *Bulletin of Graduate Studies*. This bulletin, an application blank for admission, and other information may be obtained from the Secretary to the Committee on Graduate Study.

General Information

THE COLLEGE COMMUNITY

RESIDENCE

Community life and interests are an integral part of the education offered by Smith College. A large number of student organizations—of a civic, cultural, athletic, religious, political, social, pre-professional, or service nature—have the lively support of interested members of the student body to whom they give valuable experience. For some of these activities, such as the largely autonomous student government and the various campus publications, the students themselves are almost wholly responsible; for others, such as the formal musical activities, faculty direction is provided.

Life on the campus is also enriched by an extensive program of lectures and concerts which bring to the College distinguished speakers and musicians from this country and abroad. Additional lectures, concerts, recitals, plays, and debates by both the faculty and the students make for a full and varied calendar.

In support of these and other aspects of community life, the College emphasizes the importance of residence. Freshmen and sophomores are allowed only a limited number of nights away from the campus in each semester. At the beginning of the junior year, the student herself assumes the responsibility for upholding the principle of residence. Within this framework, it has been possible for the faculty to grant to all students except freshmen and those whose standing is below diploma grade the responsibility for their own class attendance on all except the opening and closing days of a session. To those students whose homes cannot be reached within thirty-six hours of travel time from Northampton (by the means of transportation actually used) special permission may be given to extend the winter recess not more than a total of 48 hours for travel time privilege, either at the beginning or at the end.

Faculty and student legislation relating to residence and attendance is printed in full in *The College Handbook*.

THE HOUSES

The basic unit of the campus community is the college house which normally accommodates fifty to seventy students representing all four classes. Assignments to houses are made in the order of dates of application for admission to college, except when students are admitted from a waiting list. A student may move from one house to another once during her college course, the order of assignment after the freshman year being determined by lot.

GENERAL INFORMATION

Except for a few smaller houses which are grouped together to make a single unit, each college house has its own living rooms, dining room, and kitchen, and is in the charge of a Head of House who devotes full time to the administration of the house and the welfare of its members. In most of the houses there is also a resident member of the faculty. Social regulations governing life in the houses are administered by the Student Government Association. Every student is asked to contribute up to four hours a week of light service to the house in addition to taking care of her own room.

RELIGIOUS LIFE

The College provides opportunity for the development and expression of religious faith of all creeds. Daily services are held weekday mornings, except Wednesday and Saturday, in the Helen Hills Hills Chapel, and Sunday chapel services bring outstanding clergymen to the campus. Three voluntary religious organizations, the Christian Association (Protestant), Hillel Foundation (Jewish), and the Newman Club (Roman Catholic), offer programs of worship, study, and service, while cooperative educational and community service projects are undertaken by the Religious Association, of which every student is a member. The Chapel houses a Religious Center, with meeting rooms for these groups, and offices for the chaplain and his assistant. Northampton churches welcome students at their services and activities. Thus the opportunity is provided for students of each faith to strengthen their own convictions and to gain an understanding and appreciation of other traditions.

HEALTH

The Health Service is directed by the College Physician assisted by a medical staff of four resident physicians. The Doctors' Office and the Elizabeth Mason Infirmary provide medical care and facilities for treating normal illness. For unusual or serious illness, the services of specialists in Northampton and Springfield are available. The Health Service also emphasizes preventive medicine by exercising supervision over the health of the dormitory staffs and working closely with the College Dietitian.

The Elizabeth Mason Infirmary is a fully registered hospital with a normal capacity of sixty beds and an emergency capacity of ninety. In addition to administrative personnel, its staff includes a registered laboratory technician, a registered x-ray technician, a dietary supervisor, and eleven registered nurses.

The College has arranged to cooperate with a reputable insurance company in offering a voluntary insurance plan which protects the student over a twelve-month period, whether in residence at college or not. Students are strongly urged

GENERAL INFORMATION

to take out this insurance, which gives unusual protection, in addition to that which the College offers without charge.

In the interests of individual and community health, every student is expected to comply with the health regulations which are printed in *The College Handbook*.

VOCATIONAL COUNSELING AND PLACEMENT

The Vocational Office serves as a placement bureau for both alumnae and seniors who are seeking permanent positions, and for underclassmen who wish placements for the summer.

The staff assists students of all four classes in selecting their future occupations and in relating their courses to these occupations. The office provides information concerning specialized and professional training, arranges lectures and discussions on various vocations, and schedules interviews with employers who visit the campus.

Letters of recommendation for seniors and alumnae are filed with the Vocational Office and will be sent upon request to prospective employers and scholarship committees.

BUILDINGS AND GROUNDS

COLLEGE HALL, dedicated in 1875 at President Seelye's inauguration, is the main administrative building of the College. The tower houses the twenty-three bell Dorothea Carlile Carillon presented by her family as a memorial to Dorothea Carlile of the Class of 1922.

WRIGHT HALL, completed in September 1961 and named for former President Benjamin F. Wright, contains 58 faculty offices, eight seminar rooms, a language laboratory, a social science research center, a conference lounge, and a lecture hall seating 424.

JOHN M. GREENE HALL, given by John D. Rockefeller and other donors, is a large auditorium seating 2066 with additional seating space on the stage. The four-manual Austin organ of seventy stops, built in 1910, was presented by the Class of 1900 as a memorial to Cornelia Gould Murphy.

SEELYE HALL, given by friends of President Seelye, contains classrooms for over fifteen hundred students, the laboratories of the Department of Geology and Geography, and department offices.

HATFIELD HALL, formerly Hatfield House, became an academic building in 1926, providing needed seminar and class rooms.

THE WILLIAM ALLAN NEILSON LIBRARY, the gift of Andrew Carnegie, alumnae, and students, contains a large reference room, general reading and study rooms, department seminar rooms, a Rare Book Room, and a room for the college archives.

GENERAL INFORMATION

The Browsing Room, furnished as a private library, offers opportunity for leisure-hour reading. A wing was built in 1937 to provide more stacks, and to make possible additional seminar rooms, carrels for students, and offices for staff and faculty.

The Smith College Library contains 448,850 volumes, this number including those books and pamphlets housed for greater convenience in the libraries of the art, music, and science buildings. The open-shelf system permits free access to all books.

THE HILLYER GALLERY, named for Winthrop Hillyer whose gift and bequest made this first art gallery possible, is equipped with studios and exhibition rooms, the Drayton Hillyer Art Library of twelve thousand volumes, and collections of thirty-six thousand photographs and sixty-three thousand slides. Graham Hall, a lecture hall seating 265, was added through the generosity of Christine Graham Long of the Class of 1910.

When the TRYON GALLERY was presented to the College by Mr and Mrs Dwight W. Tryon to house the Smith College Museum of Art, most of the paintings, prints, and other works of art were transferred to it from the Hillyer Gallery. The museum also contains galleries for loan exhibitions, which are arranged under the auspices of the Museum to supplement the permanent collections.

SAGE HALL, the music building named in honor of Mrs Russell Sage, contains classrooms, offices, practice rooms and listening rooms, a library of seventy-five hundred books and twenty-five thousand scores, and a collection of twenty thousand records. It also has an auditorium seating 743, and is equipped with apparatus for motion pictures.

THE STUDENTS' BUILDING, designed in 1903 to be the center of the social life of the students, is now the home of the Smith College Theatre. Classrooms and offices of the Department of Theatre and Speech are also located in this building.

PIERCE HALL, until 1924 the music building, was then named in honor of Professor Arthur Henry Pierce and is devoted mainly to the Department of Psychology.

LILLY HALL OF SCIENCE contains the lecture rooms, laboratories, and library of the Department of Physics. It was the gift of Alfred Theodore Lilly.

STODDARD HALL, the chemistry building, named in honor of Professor John Tappan Stoddard, was built in 1898 and enlarged by an addition in 1918. It contains a lecture room, library, laboratories, classrooms, offices, and modern research equipment.

BURTON HALL was named for President Burton and was opened for use in September, 1914. It is equipped for the study of the biological sciences.

THE LYMAN PLANT HOUSE, the gift of Edward Hutchinson Robbins Lyman in memory of his mother, Anne Jean Lyman, includes greenhouses illustrating the vegetation of different climates, together with physiological and horticultural laboratories. Adjoining is the BOTANIC GARDEN designed for horticultural study, with sections to illustrate plant classification and habits. Arranged about the college grounds are smaller gardens and numerous varieties of native and imported trees and shrubs.

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THE ALUMNAE GYMNASIUM, given by the alumnae and their friends in 1891, contains a large floor for basketball, badminton, and tennis backboard, as well as two bowling alleys and four squash courts.

THE SCOTT GYMNASIUM was named in honor of Col. Walter Scott. It contains a large floor used for volleyball, basketball, and fencing, a room for dance, two smaller gymnasiums for group gymnastics, a graduate student classroom and library, a swimming pool 75 feet by 23 feet, an undergraduate lounge, and department offices.

GILL HALL is used by the Department of Education and Child Study for the Smith College Day School. In addition to the classrooms there is an assembly hall seating 170. Adjoining is a large playground.

THE ELISABETH MORROW MORGAN NURSERY SCHOOL, acquired through the bequest of Mrs Morgan of the Class of 1925, occupies a site adjoining the Smith College Day School.

The clinical offices of the Health Service are located in GATEWAY HOUSE.

THE ELIZABETH MASON INFIRMARY was opened in 1919. Its name commemorates Elizabeth Mason Howland, a graduate of the Class of 1904 and a daughter of Frank H. Mason whose gift completed the fund raised by the Alumnae Association. The Florence Gilman Pavilion, added while Smith was host to the Naval Officers' Training School, was enlarged and completed in 1950-51. The result is an attractive, well-equipped, fireproof Infirmary with a normal capacity of sixty patients which could be increased in emergencies to ninety.

THE ALUMNAE HOUSE, presented to the College by the Alumnae Association in 1938, contains offices for the Association staff, rooms for the use of the alumnae and the college, including a conference room seating 300.

DAVIS STUDENT CENTER, the student recreation building, contains a food shop, lounge, ballroom, and committee rooms for student organizations. It was named by the students in honor of President Davis.

THE HELEN HILLS CHAPEL, completed in 1955, provides a place for public worship and private meditation. The Clara P. Bodman Religious Center, located in the Chapel, contains a lounge and library, a choir room, and offices for the Chaplain and the campus religious organizations. The three-manual Aeolian-Skinner organ of thirty-five stops, built in 1955, was presented by Mrs Hills as a memorial to her husband, James Mandly Hills.

THE RECREATION FIELDS, over thirty acres in extent, including the Allen Field, the gift of Frank Gates Allen, and the Athletic Field, afford opportunities for such sports as hockey, soccer, baseball, lacrosse, tennis, archery, volleyball, practice golf. A short distance away are the Riding Stables. The Field House was built on the new Athletic Field in the summer of 1939 with funds given by the classes of 1938 and 1939, the undergraduates, the Athletic Association, and the Trustees. Besides storage space for athletic equipment and skates and skis, it contains a lounge,

GENERAL INFORMATION

a kitchenette, a small meeting room, and dressing rooms. The Boathouse on Paradise Pond has accommodations for canoes, rowboats, and rowing machines. In the Crew House are eight rowing shells and a large recreation room.

THE COLLEGE HOUSES

The thirty-four residence units provide living accommodations for approximately twenty-two hundred students.

The Old Campus: Chapin, Dewey (together with Clark, a small house adjacent to it), Haven (together with Wesley), the Hopkins group (three contingent houses), Hubbard, Lawrence, Morris, Park, Park Annex, and 150 Elm Street, Tenney (cooperative, for upperclassmen), Tyler, Washburn.

The Campus Northeast of Elm Street: Albright, Baldwin, Capen, Cutter, Dawes (the French House), Gillett, Lamont, Northrop, Parsons and Parsons Annex, Sessions, Talbot, Ziskind.

The Quadrangle Houses: Comstock, Cushing, Ellen Emerson, Franklin King, Gardiner, Jordan, Laura Scales, Martha Wilson, Morrow, Wilder.

The Graduate Houses: 8 Bedford Terrace, 30 Belmont Avenue.

EXPENSES

	<i>1st semester</i>	<i>2nd semester</i>
TUITION AND RESIDENCE FEE	\$ 1,250.00	\$ 1,250.00
Board, room and tuition payable at the beginning of each semester		
LINEN FEE	\$ 12.00	
ACCIDENT AND SICKNESS INSURANCE	\$ 35.00	
Recommended but optional		
	<hr/>	<hr/>
	\$ 1,297.00	\$ 1,250.00
OTHER FEES AND CHARGES		
<i>Fees for courses in practical music</i>		
Vocal or instrumental, for the College year:		
One hour lesson a week	\$ 150.00	
One half-hour lesson and two class hours	100.00	
One additional half-hour lesson taken for extra credit	75.00	
Courses in ensemble when given individually	50.00	
Use of practice room and a college instrument	15.00	
Use of practice room only, one hour daily	7.50	
Use of organs, one hour daily	35.00	
<i>Fees for classes in riding</i>		
Fall term	\$ 50.00	\$ 70.40
Winter term	80.00	80.00
Spring term	46.80	67.20
<i>Materials for courses in technical art</i>		at cost
Graduation fee		\$ 15.00
Infirmary charge per day		\$ 12.00
Each student may have Infirmary care for six days each year without charge, but no more than two free days may be used for any one illness. Daily charge is covered by insurance if such coverage is taken.		
<i>Preliminary Payments</i>		
Registration for application for admission		\$ 15.00
Not refunded or credited.		
Deposit payable on or before June 1 preceding entrance		\$ 50.00
Not refunded for new students in case of withdrawal before entrance. Refunded after graduation. Also refunded to members of the three upper classes in case of withdrawal if notice in writing is filed with the Registrar prior to July 1 for the first semester, or prior to December 1 for the second semester.		
FEE FOR NON-COLLEGIATE STUDENTS FOR EACH THREE-HOUR COURSE		\$ 125.00
FEE FOR AUDITING, PER COURSE		\$ 5.00
ESTIMATED ADDITIONAL EXPENSES:		
Books, each year, approximately		\$ 125.00
Subscriptions and dues, student activities		25.00
Gymnasium outfit for physical education		30.00
Recreation and incidentals		from \$100 to \$150.00

SCHOLARSHIPS & FINANCIAL AID

SCHOLARSHIPS

For students of marked ability who are unable to meet their full expenses, the College offers scholarships ranging from \$200 to \$2500, ten regional scholarships ranging from \$200 to \$1800, and ten residence scholarships each year. These scholarships are made possible through endowed funds given to the College for scholarship purposes, by an annual appropriation from general income, and by annual scholarship gifts from alumnae clubs and from other organizations.

All scholarships are awarded on the basis of high academic standing, personal qualifications, and financial need. They are given for one year only but may be renewed. Applications from entering students should be sent to the Director of Scholarships and Student Aid by January 15 of the year of entrance.

Scholarships of \$1200 are granted at the discretion of the Trustees to undergraduates who have been residents of Northampton or of Hatfield for five years directly before the date of their admission to college, provided they are able to satisfy the full requirements of admission; this grant is continued through their college course provided they maintain diploma grade, conform to the regulations of the College, and continue to be residents of Northampton or of Hatfield.

Scholarships of varying amounts are awarded to foreign students. For these special application should be made to the Committee on Foreign Students.

Smith College participates in the Seven College Conference Scholarship Program. A student living in Colorado, Kansas, Missouri, Nebraska, Arizona, Arkansas, Louisiana, New Mexico, Oklahoma, Texas, California, Idaho, Oregon, or Washington may compete for one of these scholarships. For details about this program applicants should write to the Director of Admission before January 15 for the next academic year. The participating colleges are Barnard, Bryn Mawr, Mount Holyoke, Radcliffe, Smith, Vassar, and Wellesley.

These same colleges, with many others, also participate in the College Scholarship Service of the College Entrance Examination Board which acts as a clearing house for scholarship applications, sending to the college concerned the financial information from the parents or guardians. The College itself, however, makes all final decisions on actual scholarship awards, which are announced in May.

The College awards fifteen scholarships in music each year.

FIRST GROUP SCHOLARSHIPS

The following scholarships are awarded to students of highest academic standing:
The Neilson Scholarships. Not more than fifteen scholarships, created by the Board of Trustees in honor of President William Allan Neilson on the completion of fifteen

SCHOLARSHIPS

years of his administration, are awarded annually to students in the first group of scholars in the three upper classes.

The Dwight W. Morrow Scholarships. Ten scholarships are awarded annually to seniors in the first group of scholars.

The William A. Neilson Scholarship. This provides full tuition for a student in the first group.

The Sophia Smith Scholarships. These scholarships are awarded without stipend to members of the three upper classes whose standing entitles them to a place among the first group of scholars.

COOPERATIVE HOUSE AND RESIDENCE SCHOLARSHIPS

Tenney House, originally established as the gift of Mrs Mary A. Tenney, is open to members of the three upper classes. In this house the students cooperate in the purchase of food and in the duties of housekeeping. The cost of a room in Tenney House is \$200 for the year; current prices determine the cost of board.

In memory of Mrs Tenney, ten scholarships have been established known as the Tenney Residence Scholarships. These consist of \$100 each to be applied toward residence in any college house. They are awarded to students of approved character and scholarship in the three upper classes.

SELF-HELP

The College undertakes general supervision of the remunerative work done by undergraduates. Students wishing any kind of employment during the college year should register with the Director of Scholarships and Student Aid. Only a limited amount of work is available, most of which is given to students of the three upper classes.

LOANS

Smith College believes that students seeking financial aid for college should apply for loans as well as for scholarships. The College therefore has loan funds available on generous repayment terms. The Smith Students' Aid Society, Inc., an organization of Smith alumnae, also makes funds available for loans to members of the three upper classes on the same generous repayment plan. All applications for loans should be made to the Director of Scholarships and Student Aid by January 15 preceding the academic year for which financial aid is requested. Later applications will also be considered when necessary.

FELLOWSHIPS

The announcement of fellowships awarded for graduate work including those open to students from foreign countries is in the *Bulletin of Graduate Studies*.

PRIZE FUNDS

The *Alpha Awards* are made annually by a committee of the faculty for excellence in the fields of creative writing, dance, drama, technical art, practical music or composition.

The *Academy of American Poets Poetry Prize* of \$100, to be awarded annually from 1955 through 1965 by the Academy of American Poets through the prize committee of the English Department for the best poem or group of poems submitted by an undergraduate.

The *Anita Luria Ascher Memorial Prize* of \$25, given in her memory by Dr. Liebe D. Sokol '51 and her parents, to be awarded annually for proficiency in German language and literature.

The *Elizabeth Babcock Poetry Prize* fund of \$2500, established by Miss Edith L. Jarvis 1909 in memory of Elizabeth Babcock ex-1911. The income is to be awarded annually for the poem adjudged best by a committee appointed by the Department of English. The competition is open to all undergraduates except those who have already won the prize; the poem submitted may not have been printed previously.

The *Harriet Dey Barnum Memorial Prize* fund of \$300, founded by the Class of 1916, the income to be used for outstanding work in music.

The *Suzan Rose Benedict Prize* fund of \$1085.47, the income to be awarded at the discretion of the Department of Mathematics to a freshman or sophomore who has done outstanding work in differential and integral calculus, the decision being made by the Department.

The *Samuel Bowles Prize* fund of \$2002.69, the income to be awarded to a senior for the best thesis on a sociological or economic subject.

The *John Everett Brady Prize* fund of \$2000, the income of which is awarded for excellence in Latin, to be tested by an examination upon an assigned portion of Latin literature: in 1962, Seneca, *Thyestes*; in 1963, Tacitus, *Dialogus*.

The *Margaret Wemple Brigham Prize* fund of \$850, established in her memory by friends and associates of the Division of Laboratories and Research of the New York State Department of Health, the income to be awarded to a senior for excellence in bacteriology.

The *Amey Randall Brown Prize* fund of \$2000, given by Miss Mabel Brown 1887 in memory of her mother. The income is to be used as a prize for the best essay on a botanical subject.

The *Vera Lee Brown Prize* fund of \$1000. On recommendation of the Department of History the income is awarded for excellence in that subject to a senior majoring in history in the regular course.

The *Yvonne Sarah Bernhardt Buerger Prize* fund of \$5000, the income to be awarded to those undergraduates who have contributed most vitally to the dramatic activities of the College.

PRIZE FUNDS

The *James Gardner Buttrick* fund of \$1000, given by Mrs Buttrick in fulfillment of her husband's wish, the income to be used for a prize for the best essay on a subject in the field of religion and Biblical literature suggested by a course in that Department and approved by the instructor.

The *Carlile Prize* fund given by the Very Reverend and Mrs. Charles U. Harris in memory of Dorothea Carlile 1922, from which is awarded a prize of \$25 for the best original composition for carillon and a prize of \$15 for the best transcription for carillon.

The *Julia Harwood Caverno Prize* fund of \$2000, the income of which is given to a member of the junior or the senior class for excellence in Greek language and literature.

The *Sidney S. Cohen Prize* fund of \$2500, the income to be awarded at the discretion of the Department of Economics.

The *Ethel Olin Corbin Prize* fund of \$1000, the income to be awarded to the undergraduate for the best original poem—preferably blank verse, sonnet, or ballad—or informal essay in English.

The *Dawes Prize* fund of \$1898.57, the income to be awarded for the best undergraduate work in political science.

The *Alice Hubbard Derby Prize* fund of \$2555.34, the bequest of Mr Henry R. Lang in memory of his wife, a member of the Class of 1885. The income is to be used for prizes awarded by the Classics Department to students of the junior and senior classes who have shown special proficiency in the study of Greek literature in the original in the year in which the awards are made. The award will be based on an examination on an assigned portion of Greek literature: in 1962, Menander, *Dyskolos*; in 1963, Demosthenes, *Third Philippic*.

The *Hazel L. Edgerly Prize* fund of \$500, founded in memory of Hazel Louise Edgerly 1917, the income to be awarded on the recommendation of the Department to a senior in honors in history for distinguished work in that subject.

The *Settie Lehman Fatman Prize* fund of \$5000, the income to be awarded in two prizes for the best musical composition, preferably in sonata form, and for the best composition in a small form by members of the Senior Class or graduate students taking Music 42 or Special Studies in Composition or by a student in Music 33.

The *Harriet R. Foote Prize* fund of \$500, the income of which is to be awarded to the outstanding student in botany, based on an examination record.

The *Henry Lewis Foote Memorial Prize* fund of \$500, given by his wife, Harriet Risley Foote 1886, the income to be awarded for excellence in classwork in Biblical courses.

The *Clara French Prize* fund of \$5000, founded by Mrs Mary E. W. French, the income to be given to that senior who has advanced farthest in the study of English language and literature.

PRIZE FUNDS

The *Helen Kate Furness Prize* fund of \$1000, founded by Horace Howard Furness, the income of which is given for the best essay on a Shakespearean theme. There is no restriction on the length of the essays, but in general they are not to be shorter than 4000 words nor longer than 10,000 words. The competition is open to all essays on a Shakespearean theme (except honors theses) prepared in courses or units and recommended by the instructors of such courses or units.

The *Sarah H. Hamilton Memorial Prize* fund of \$600, given by her sister Mrs Julia H. Gleason, the income to be awarded for an essay on music.

The *Arthur Ellis Hamm Scholarship Prize* fund of \$5000, founded by Elizabeth Creevey Hamm 1905 in memory of her husband, Captain Arthur Ellis Hamm, the income to be awarded to a freshman on the basis of the year's record.

The *Frances A. Hause Memorial Prize* fund of \$1000, founded in memory of Frances A. Hause 1922, the income to be awarded to the senior who has majored in chemistry and has made the best record in that subject.

The *Florence Corliss Lamont Prize*, a medal to be awarded for work in philosophy.

The *Emogene Mahony Memorial* fund for the furtherance of English literature and dramatic art from which is awarded \$25 for the best essay on a literary subject written by a student in English 11, and \$100 for the best honors thesis submitted to the Department of English.

The *Emogene Mahony Memorial Prize* fund of \$500, founded by Miss Ethel Haskell Bradley 1901, the income to be given for proficiency in organ.

The *John S. Mekeel Memorial Prize* fund of \$1,000, given in his memory by his wife, the income of which is to be awarded annually to a member of the senior class, selected by the Philosophy Department, for outstanding work in philosophy.

The *Samuel Michelman Memorial Prize* fund of \$500, given in his memory by his wife, the income to be awarded to a senior from Northampton or Hatfield who has maintained a distinguished academic record and contributed to the life of the College.

The *Mrs Montagu Prize* fund of \$400, founded by Mrs Abba Louisa Goold Woolson in honor of Mrs Elizabeth Montagu, the income to be awarded for the best essay on the women of the eighteenth century or women depicted in the literature of that century.

The *Victoria Louise Schrager Prize* fund of \$2000, given in her memory by her family and Miss Marjorie Hope Nicolson, the income to be awarded annually to a senior who has maintained a distinguished academic record and has also taken an important part in student activities.

The *Andrew C. Slater Prize* fund of \$1000, the income of which is awarded to an undergraduate for excellence in debate.

The *Frank A. Waterman Prize* fund of \$335, the income to be awarded to a senior who has done excellent work in physics.

1961 Awards

PRIZES

- Alpha Awards*: art, Carol Heimberg, 1961; music, Carol Garrett, 1961; theatre. Jane Campbell, 1961; dance, Heather Hyde, 1961.
- Academy of American Poets Poetry Prize*: Juliet Frey, 1962
- American Association of University Women Award*: Linda Lee, 1961
- Anita Luria Ascher Memorial Prize*: Elizabeth Hale, 1961
- Elizabeth Babcock Poetry Prize*: Barbara Becker, 1964; Carol Sudhalter, 1964
- Harriet Dey Barnum Memorial Prize*: Sylvie Koval, 1961
- Suzan Rose Benedict Prize*: Sherry Marcy, 1964; Julie Mendlow, 1963
- Samuel Bowles Prize*: Martha Richmond Bladen, 1961; Carol Trifari, 1961
- John Everett Brady Prize*: Mary Gamel, 1963
- Margaret Wemple Brigham Prize*: Maureen Hechtel, 1961
- Amy Randall Brown Memorial Prize*: Elizabeth Stevenson, 1964
- Vera Lee Brown Prize*: Elizabeth Barker, 1961; Martha Resnik, 1961
- Yvonne Sarah Bernhardt Buerger Prize*: Katherine Isham, 1961; Jane Campbell, 1961
- James Gardner Buttrick Prize*: Margaret Frelinghuysen, 1961
- Carlile Prize*: Selena Haines, 1961; Margaret Paine, 1962
- Sidney S. Cohen Prize*: Marilyn Carlson, 1961; Carolyn Grinnell, 1963
- Alison Loomis Cook Scholarship*: Juliet Schoen-René, 1962
- Ethel Olin Corbin Prize*: Nancy Moore, 1963
- Dawes Prize*: Linda Lee, 1961
- Alice Hubbard Derby Prize*: Joan Wanous, 1961
- Hazel L. Edgerly Prize*: Sally Scully, 1961
- Settie Lehman Fatman Prize*: Joan Panetti, 1963
- Harriett R. Foote Prize*: Ruth Joffe, 1963
- Henry Lewis Foote Memorial Prize*: Barbara Nyce, 1963
- Clara French Prize*: Joyce Skaggs, 1961
- Helen Kate Furness Prize*: Heather Ross, 1962; Joyce Skaggs, 1961
- Sarah H. Hamilton Memorial Prize*: Sylvie Koval, 1961
- Arthur Ellis Hamm Scholarship Prize*: Nancy Nickerson, 1964
- Frances A. Hause Memorial Prize*: Jean Cehura, 1961
- Florence Corliss Lamont Medal*: Mary Wayne, 1961
- Awards from the Mahony Fund*: Martha Hutchison, 1964; Carol Thomas, 1961
- Emogene Mahony Memorial Prize*: Susan Ensworth, 1962
- John S. Mekeel Memorial Prize*: Mary Wayne, 1961
- Samuel Michelman Memorial Prize*: Donna Greenough, 1961
- Guthrie McClintic-Katherine Cornell Prize*: Ellen Petersilie, G.S.
- Mrs. Montagu Prize*: Ruth Stevenson, 1961
- Victoria Louise Schrager Prize*: Susan Allen, 1961
- Frank A. Waterman Prize*: Susan White, 1961; Irene Stiefel Starr, 1961

FIRST GROUP SCHOLARS*

Class of 1962

Martha Abbott
Janet Adelman
Leslie Bauman
Linda Bergin
Dorothy Bristol
Cheryl Cummer
Susan Ensworth Langford
Juliet Frey
Susan Friedman
Norma Goldberg
Barbara Hill

Charlotte Johnson
Katharine Kyes
Rosalie Laing
Elisabeth Morgan
Margaret Paine
Judith Pryor
Suzanne Solomon
Hilah Thomas
Patricia Tobacco
Sally Vance

Class of 1963

Ellen Barth
Jane Davis
Lydia Fakundiny
Susan Goldstone
Helen Harbison
Beatrice Holden
Ruth Joffe
Carolyn Johnson
Margaret Killingsworth
Myrna King

Joanne Kroll
Jacqueline Manney
Barbey Nyce
Mary Oakley
Joan Panetti
Barbara Ryan
Linda Sato
Judith Shenker
Miriam Steinbock
Susan Strong

Class of 1964

Mary Bond
Edith Borie
Mary Bowden
Cynthia Carlson
Ellen Cue
Letty Goodman
Susan Gorham
Katherine Graubard

Joan McLaughlin
Marcia Mulford
Nancy Nickerson
Anna Ortiz de Montellano
Lois Rosenberg
Susan Spector
Sheila Sussman
Susan Taylor

*These include the Dwight W. Morrow, the Neilson, the William Allan Neilson, and the Sophia Smith scholars.

1961 AWARDS

DEGREES

A.B.

Maureen Nancy Abramson
Caro Edwards Alexander
Jane Ellen Amster
Alice Margaret Arnott
Elizabeth Chalmers Aston
Regina Wiley Averbuck

Nancy Margaret Baker
Elizabeth Gillette Barker
Margaret Ogden Barker
*Nancy Ellen Barks
Eleanor Poe Barlow
Sarah Vivian Barnes
Louise McGehee Bartlett
Sarah Sturgis Bartlett
Barbara Lee Berlan
Margaret McEwan Betts
Linda Francine Bills
Anne Washington Blagden
Mary Therese Blazhys
Maxine Ellin Bleich
Maris Jacqueline Bloom
Frances Maynard Bonsal
Anne Bradley
Eve Adele Braun
Merwin Carter Braxton
Janet Robertson Breed
Ann Louis Brosnahan
Barbara Margaret Brown
Sarah Louise Brown
Ann Evelyn Burke
Lucinda Burling
Barbara Bullard Burn
Margaret Louise Bush
Sheila Enid Byer

Carol Anne Cahill
Barbara Ellen Cain
Joan Callaway
Diane Dorothy Campbell
Jane Campbell
Mabelita Karen McLane Campbell
Elizabeth Fauntleroy Canby
Bernadette Alice Carey
Kate Colburn Carpenter
Elizabeth Anne Carter
Nathalie Ann Cassavant
Nancy Champe
Deborah Churchill
Cynthia Elizabeth Chutter
Cornelia Thayer Clark
Lyndon Stanton Clemens
Joan Lawton Clough
Judith Phyllis Cohen
Victoria Mosby Coleman
Hallie Gordon Coles
Nancy Ann Colman
Caroline Iola Conklin
Catherine Cowle Crane
Eleanor Marie Cunliffe
Joan Tod Cushman

Florence Anne Dalrymple
Martha Hawley Damon
Esther Fisher Davis (Radinsky)
Frances Linda de Florio
Suzanne Clarice Delphos
Barbara Luise DeMarco
Angeline Lidia De Santis
Carol Joan Dinnes
Margaret Michaela Doherty
Elizabeth Donaldson

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

Carla Swan Donkin
 Sandra Elaine Donna
 Mary Lou Dragon
 Sarah Jane Drew
 Susan Barbara Dry
 Reggy Ann Dubin
 Gail Saunders Dugan
 Diana Ellen DuPree
 Katherine Montague Dyer
 Margaret Jeanne Dyer

Nancy Hamilton Eaton
 Janet Adele Edgar
 Corinne Ann Edwards
 Joan Paula Eggatz
 Anne Ekstrom
 Patricia Yerkes Elliman
 Lee Katherine Ellison
 Patricia Ann Ewasco
 Barbara Kittredge Ewer

Virginia Fagg
 Karen Esther Faulkner
 Sarah Jane Frome Feinberg
 Joanne Feldman (Segal)
 Ann Sault Ferrebee
 Catherine Fey
 Ellen Sydney Fine
 Barbara Fisher
 Deborah Averill Fisher
 Carol May Fisk
 Jo Anna Flanagan
 Elizabeth Carey Foltz
 Joanna Shreve Fortune
 Marta Lynn Foster
 Elizabeth Wells Fox
 June Frederickson
 Margaret Lawrance Frelinghuysen
 Marjorie Ann French
 Judith Ann Frieze
 June Warburton Frye

Anne Hope Gagnebin
 Miriam Ganem
 †Frances Sue Garonzik
 Joyce Edith Geiger
 Carmody Richard Geraghty
 Susan Dabney Gladding
 Gail Noble Glanville
 Marion Elizabeth Glassmeyer
 Karen Goad
 Nancy Jane Goldman
 Rochelle Joy Goldman
 Linda Maris Goldner
 Arlene Ruth Goodsitt
 Judith Blane Gordon
 Mary Montgomery Gordon
 Deborah Graff
 Melanie Grant
 Alice Driver Graves
 Nancy Dillon Gregg
 Mary Stuart Greil
 Gail Elinor Griffis (Kressmann)
 Katherine Skiles Griggs

Deborah Wagner Hagberg
 Susan Elizabeth Haller
 †Judith Lavinia Hamilton
 Sarah Grant Hand
 Frances Katharine Labatt Harley
 Diane Elizabeth Hay
 Diana Fessenden Hazel (Djakov)
 Mary Jean Hehrlein
 Caroljoy Noël Heimbürg
 Clarice Zelda Heller (Berman)
 Deborah Heller
 Marcia Hellman
 Judith Lynne Helwig
 Myrthé Taylor Hero
 Judith Ann Hess (Greenhalgh)
 Sandra Putnam Hewlett
 Susan Hiller
 Elizabeth Day Hintz

1961 AWARDS

Marie Louise Hodge
 Penelope Holland
 Patricia Matthews Holt
 Carol Hoppin
 Danilie Day Howe
 Lela Christine Huneke
 Susan Hunziker
 Helen Wardwell Hutchins
 Heather Hyde
 Sandra Smyth Hyde

Coralyn Eleanor Ingersoll
 Amalia Homer Ioannidou
 Eleanor Jay Iselin
 Katherine Porter Isham

Beth Ann Jacobsen
 Marsha Val Jamison (Rosky)
 Martha Emilie Jeppesen
 Carol Hayden Johnson
 Judith Butler Johnson
 Mary Araminta Johnson
 Dorothy Ruth Johnston
 Christine Murray Jones
 Marilyn Faulkner Jordan
 Suzanne Scott Joslin (Ward)

Varick Katzenbach
 Julia Helen Kayan
 Nancy Carol Keebler
 Sharon Keene
 Alison Jane Kenney
 Anne Knox Kevlin
 Mary Elizabeth Kiley
 †Gay Kimball
 Carolyn Kinder
 Sharon Kay Kissick
 Hetty Archer Knowlton
 Linda Simone Konheim
 Alexandra Bushnell Kubler

Prudence Priscilla Lamb
 Virginia Ann Lampe
 Susan Law
 Sally Scofield Lawrence
 Judith Eleanore Lawson
 Patricia Chiu-yi Lee
 Elizabeth Susan Lefft
 Linda Ann Lehrman
 Phyllis Ann Levine
 Lucia Jean Little
 Carol Montgomery Lobb
 Mary Amanda Loutrel
 Ann Lubell
 Ann Elizabeth Lumpkin

Jean Anthony McClelland
 Helen Adams McClennen
 Karen Lewis McClure
 Elizabeth McCorrison
 Mary Stewart McCullen
 Elizabeth Ann McKernan
 Jane Bethune MacLeod
 *Sara Bennett Mack
 Tahti Marje Mand
 Joan Taggert Marquis
 Elizabeth Marie Marr
 Marilyn Agnes Martin
 Meanne Lucia Mashburn
 Cynthia Ann Maughan
 Carol Ann Mawby
 Alva Susan Mendels
 Yvonne Merle Mendonca
 Jacqueline Merrill
 Martha Michener
 Linda Jean Miller
 Margaret Lie Miller
 Wallis-Anne Miller
 Gail Minault
 Susan Carol Mizel
 Anne Rush Mollegen
 Laura Moon

Elizabeth Black Moorhead
 Sarah Catherine Morford
 Mary Louise Mullen
 Susan Legaré Mussey
 Florence Gladwell Ng'endo Mwangi
 Ruth Gertrude Finninger Myers

Susan Gail Nair
 Tiiu Nauts
 Cynthia Page Neville
 Anne Dudley Newell
 Margaret Emily Niehuss
 Lucy Young Noyes

Barbara Anne Ock

Blythe Susan Page
 Harriett Kirkham Parsons
 Elizabeth Hancock Partridge
 Jane Partridge
 †Ann Peck
 Betsy Foster Peck (McCarthy)
 Juliet Thorp Perry
 Laura John Pires
 Adrienne Michele Piserchia
 Martha Ann Pliner (Grace)
 Katherine Victoria Pope
 Elizabeth Anne Posner
 Halina Poswiatowska
 Patricia Lee Potter
 Terry Ann Poulin
 Joanne Elisabeth Pratt
 Judith Dorothy Prien
 Virginia McCandlish Puller
 Ruth Seely Putnam

Sylvia Cele Rakatansky (Forman)
 Gretchen Katherine Rast
 Nancy Razen
 Elaine Wilson Reed
 Martha Beck Resnik

Abigail Rickert
 Lillian Jean Riemer
 Lynne Elaine Riley
 Judith Anne Roberts
 Paula Rebecca Roberts
 Anne Tuck Robertson
 Elizabeth Ann Robertson (Harriss)
 Jeannine Henryette Lucie Rohrbach
 Mary Leslie Rose
 Linda Sue Rosen
 Barbara Ann Rosenfelt
 Sally Bruno Ross
 Barbara Iris Russell
 Gloria Marguerite Russell

Sandra Marilyn Sames
 Joan Rolston Sanger
 Irene-Nike John Sarli
 Christina Schafer
 Alice Jane Schaffer
 Susan Lane Schaffer
 Diane Morgan Scharfeld
 Marilyn Audrey Schiff
 Susan Schneckloth
 Barbara Jo Schnepf
 Ann Barbara Schroedel
 †Susan Ellen Schur
 Meryl Diane Schwartz
 Jocelyn Alexandra Scofield
 Margaret Ballentine Seay
 Marjorie Seiger
 Ann Settelmeyer
 Sandra Wolcott Shelvey
 Ann McElwain Shepler
 Lida Dee Sherk
 Davida Anne Sherwood
 Harriet Susan Shultz
 Judith Isabel Silverman
 Nancy Gail Silverman
 Cora Ruth Singer
 Susan Barlow Sloan

1961 AWARDS

Kathryn Elizabeth Smelzer
 Barbara Dale Smith
 Christine Johnson Smith
 Edith Smith
 Elizabeth Janes Smith (Witter)
 Janet Mason Smith
 Julianne Smith
 *Linda Smith
 Louise de Marigny Smith
 Virginia Eron Smith
 Rita Marianne Sokolski
 Lynda Marion Spence
 Sherrie Lee Stephens
 Susan Stephens
 Ruth MacDonald Stevenson
 Ellen Butterworth Stover
 Sally Harrison Street
 Alison Tennant Strieder
 Jane Lavinia Symonds

Susan DuPuy Taggart
 Julie Josten Teipel
 Mary Frances Theban
 Patricia Carey Thomas
 Sally Gay Thompson
 Cynthia Louise Thrall
 Susan A. Tieman
 Mary Walker Tison
 Martha Titus
 Judith Lynn Towvim
 *Karen Frances Trott
 Terril Salisbury Trowbridge
 Gail Felice Tucker
 Nancy Tina Unger
 Haruko Uramatsu
 Susan Rose Uris

Sarah Rosalynd Vaeth
 Ann Dalton Van Alstyne
 Susan Jane Yelf Van Luven
 Jean Van Orman
 Laura Gaylord van Rooten
 Judith Frances Vantrease
 †*Janet Ruth Vogel
 Wendy Ann Vollertsen

Susan Peck Walker
 Joan Carole Wanous
 Gail Henderson Warner
 Susan Todd Warner
 Elizabeth Bennett Warren
 Margaret Torrey Watson
 Katherine Graves Wells
 Dorothy Slingluff Whitney
 Myra Judith Wiesenfeld
 Alice Marshall Williams
 Leila Fosburgh Wilson
 Margaret Anne Wilson
 Sharon Anne Wingfield
 Wren Devereux Winslow
 Judith Linda Winters
 Mary Rex Winters
 †Mary Elizabeth Wood
 Gill Aspell Wright
 Priscilla Jean Wright

Martha Anne Yost
 Nina Louise Dufield Young
 Sherley Young

Margaret Zemel
 Susan Jane Zimmerman

With distinction

*Elizabeth Bayne
 *Carol Jeanne Brayden
 †*Carol Ann Chmura

*Elisabeth Robbins Cole
 *Joyce Lynn Sills

HONORS

Cum laude

- *Nancy Rita Arnone, *Government*
 Ellen Russell Bartlett, *English*
 Vida Jane Bull, *English*
 Bettina Anne Burbidge, *French*
 †Diane Marie Canby, *Premedical Science*
 Marilyn Arleen Carlson, *Economics*
 Alexandra Huntington Chappell, *History*
 Sally Earl Davis, *History*
 Susan DeLay, *American Studies*
 Sally Sterling Ellis, *English*
 Milly Margaret Freeman, *Art*
 Cynthia Clare Friend, *Bacteriology*
 Phyllis Ellen Funke, *History*
 †Donna Margaret Greenough, *Psychology*
 Selena Ullom Haines, *English*
 Helen Baer Coxe Harden, *Government*
 Judith Ann Heimlich, *Government*
 Barbara Jo Heyman, *Religion*
 Judith Kain Hofmann, *English*
 Susan Eila Karwoski, *Religion*
 Margery Freeman Kremers, *Art*
 Jennifer Land, *Art*
 †Judith Mary Leining, *Chemistry*
 †Elizabeth Catherine Manners, *Chemistry*
 Mary Thérèse Molyneaux, *Sociology and Anthropology*
 April Olmsted, *Government*
 Laura Louise Reed, *English*
 Constance Faith Roberts (Sobel), *Ancient Studies*
 Joan Rockey, *Government*
 Carol Ann Schiro, *Government*
 Sandra Gail Shuman, *German*
 Heather Lee Smith (Kleiner), *Sociology and Anthropology*
 Helen Whittemore Turnbull, *English*
 Lois Elizabeth von Gehr, *Government*
 Wallys Weiss, *Government*
 Joan Charon Wheeler, *French*
 Debora Wolfe, *History*

*Elected to Phi Beta Kappa

†Elected to Sigma Xi

1961 AWARDS

Magna cum laude

- *Honora Lynn Albert, *Sociology and Anthropology*
- *Susan Erickson Allen, *English*
- *Susan Linda Badian, *History*
- †Margaret Lynne Batzer, *Biochemistry*
- *Denise Aimee Belisle, *Government*
Deborah Susan Bochner, *History*
- *Judith Ann Bules, *Philosophy*
- †Jean Marion Cehura, *Chemistry*
- *Phyllis Ruth Chinlund, *English*
Helen D'Alessandro, *English*
- †Mary Louise Evans, *Zoology*
- *Carol Joy Garrett, *Music*
- *Emily Louise Gilison, *History*
- *Jane Gurko, *English*
- *Elizabeth Hale, *German*
Roberta Hall, *Sociology and Anthropology*
- *Helen Wrightson Hardcastle, *History*
- *Monica Marguerite Heymann, *Religion*
Lynda Ann Hird, *Religion*
- *Nanecen Miller Hunter, *Government*
- *Paula Sigrid Johnson, *Russian Civilization*
- *Cora Lotte Kaplan, *English*
- *Sylvie Louise Koval, *Music*
Susan Moyer Kulp, *Religion*
- *Rhoda Anne Manheim, *Government*
Joyce Ruth Manheimer, *History*
- *Louise Merrill, *American Studies*
Monika Angela Moesslang, *English*
Carole Jane Moyer, *English*
- *Brenda Ellen Mulmed, *History*
- *Susan Ruth Nevas, *History*
- †Nancy Carolyn Nordahl, *Physics*
- *Margaret Raye, *Religion*
- *Martha Warren Richmond (Bladen), *Sociology and Anthropology*
- *Mary Jane Roche, *German*
Gertrude Mead Schenck, *Philosophy*
- *Sally Anne Scully, *History*
Phyllis Elaine Sirota, *Government*
Antoinette Stackpole, *History*
- †*Irene Claire Stiefel (Starr), *Physics*

- †*Sabra Sullivan, *Mathematics*
 Elizabeth Ann Tarlau, *English*
 Iris Merrill Tillman, *English*
 Carol Ann Trifari, *Economics*
 †Susan Bowman White, *Physics*
 Katherine Prentis Woodrooffe, *English*

Summa cum laude

- †*Maureen Ann Hechtel, *Bacteriology*
 *Linda Kathleen Lee, *Government*
 †*Dorothy Christine Naumann, *Biochemistry*
 *Judy Ruth Owen, *Philosophy*
 †*Marion Chandler Scattergood, *Mathematics*
 *Joyce Allen Skaggs, *English*
 *Carol Page Thomas, *English*
 *Mary Helen Wayne, *Philosophy*
 †*Emily Symington Wilson, *Mathematics*

M.S. IN PHY. ED.

- Jessie Gare Bierwert, A.B., Smith College, 1946.
 Judith Christine Fusek, A.B., Smith College, 1960.
 Donna Rae Pickel, B.S., Oklahoma Baptist University, 1960.
 Carolyn Ann Stearns, A.B., Miami University, Ohio, 1959.
 Ann Louise Steimen, B.S., Boston University, 1957.
 Cherylee Worden, B.S., University of Southern California, 1960.

ED. M.

- Evalyn Geilich Glickman, A.B., Smith College, 1956.
 Priscilla Knapp Phillips, A.B., Temple University, 1943.
 Patricia Irene Terrill, B.S. in Ed., Ball State Teachers College, 1959.
 Bonnie Patricia Veitch, A.B., Greensboro College, 1959.

M.A.T.

- Annette Caroline Buhrmester, B.A., University of Wisconsin, 1959. *History*
 Aida Sison Purugganan, B.S. in Ed., University of Santo Tomas, 1948; M. Ed.,
 Springfield College, 1958. *History*.

1961 AWARDS

Rosanne Smith Soffer, B.S., Northwestern University, 1943. *History*.
Judith Ann Thompson, A.B., Cornell University, 1960. *English*.
Chun-fang Yu, B.A., Tunghai University, 1959. *English*.

A.M.

Judith Fenn Atwood, B.S., Bates College, 1960. *Mathematics*.
Fay Beatrice Burras, A.B., Lebanon Valley College, 1960. *Mathematics*.
Margie Debra Burt, A.B., Talladega College, 1959. *Chemistry*.
Demet Hatice Dincer, B.S., American College for Girls, Istanbul, 1959. *Chemistry*.
Frances Katherine Durkan, B.S., Marymount College, New York, 1959. *Physics*.
Elizabeth Cady Fenn, A.B., University of Michigan, 1939. *Art*.
Mei-shu Ho, B.S., Tunghai University, 1959. *Chemistry*.
Jean Valerie Johnson, B.A., King's College, London University, 1958. *History*.
Louise Marie Kennison, B.A., University of Massachusetts, 1959. *Theatre*.
Louise Mary Lissandri, B.A., St. Joseph College, Connecticut, 1959. *Spanish*.
Marion Ruth Magee, B.S. in Ed., Boston University, 1942. *Education and Child Study*.
Carol Evangeline Marschhaus, B.S., Wagner College, 1959. *Zoology*.
Justine Godchaux Mecray, A.B., Vassar College, 1957. *Theatre*.
Carin Paula Walleck Rapson, A.B., Sarah Lawrence College, 1958. *Art*.
Roberta Zelda Rosen, A.B., Douglass College, 1960. *History*.
Mary Elizabeth Rowe, A.B., University of California, 1959. *Zoology*.
Katharine Madeline Shea, A.B., College of Our Lady of the Elms, 1943; M.Ed.,
Bridgewater State Teachers College, 1954. *Spanish*.
Seva Sud, M.A., Indraprastha College for Women, Delhi, 1949. *History*.
Hsiu-Li Wu, B.S., National Taiwan University, 1959. *Physics*.

HONORARY DEGREES

Lily Ross Taylor

LL.D.

Dorothy Millicent Horstmann

SC.D.

Marguerite Yourcenar

LL.D.

Maria Goeppert Mayer

SC.D.

Vivion Lenon Brewer

L.H.D.

SCHOOL FOR SOCIAL WORK DEGREES

August, 1961

M.S.W.

- Mary Suzanne Batchelder, B.A., University of New Hampshire, 1957.
 Joan Carolyn Bliss, A.B., Smith College, 1956.
 Anna Mae Bowman, B.A., Goshen College, 1959.
 Nancy Marie Bryan, A.B., Denison University, 1957.
 Gladys Stuart Cook, B.A., Diploma in Social Studies, University of Sydney, 1940, 1941.
 Barbara Lee Cox, A.B., Albright College, 1959.
 Nancy Marie Curran, A.B., University of Pittsburgh, 1959.
 Elizabeth Means Currie, B.A., Keuka College, 1948.
 Mary Eleanor Diamond, A.B., Smith College, 1941.
 Doloris Whiteman Doeltz, B.A., The Dominican College San Rafael, 1950; Certificate in Social Services, University of California, 1959.
 Jeanette Barbara Dorsey, A.B., Brandeis University, 1958.
 Eleanor Mallach Epstein, A.B., Brooklyn College, 1955.
 Jeanne Lois Farrell, A.B., Saint Mary-of-the-Woods College, 1951.
 Jacqueline Marie Flynn, A.B., Albertus Magnus College, 1956.
 Joan Margaret Gleason, A.B., Duke University, 1959.
 Mary Ellen Gorton, A.B., Colorado State College of Education, 1956.
 Mary Green, A.B., Coker College, 1955.
 Nancy Joyce Hallberg, A.B., Upsala College, 1959.
 Carol Vega Hause, S.B., Simmons College, 1959.
 Evelyn Carol Hiller, B.A., Manchester College, 1958.
 Judith Moses Jhirad, B.A., University of Bombay, 1952; Diploma in Social Service Administration, Tata Institute of Social Sciences, 1954.
 Gail Kavanagh, A.B., Denison University, 1958.
 Martha Ann Keller, A.B., Sacramento State College, 1955.
 Ellinor Salinger Klein, A.B., University of Chicago, 1958.
 Sara Janet Kopit, A.B., Brooklyn College, 1956.
 Wilhelmina Gaines MacCatty, A.B., Clark College, 1942.
 Patricia Anne McGuinness, B.S., Boston College, 1954.
 Vivian Irene Macpherson, B.A., Fisk University, 1944.
 Tasnim Qadir Mian, B.A., Government College for Women, 1956; B.ED., Lady MacLagon Training College, 1957; M.A., University of Panjab, 1959.
 Patricia Anne Murphy, A.B., Bryn Mawr College, 1959.
 Lois Alta Myers, A.B., Duquesne University, 1956.

1961 AWARDS

- Josephine Margaret Nealon, B.S., Cornell University, 1959.
LuDean Janice Neessen, B.A., State University of Iowa, 1957.
Susan Leslie Nichols, A.B., Tufts College, 1959.
Eudokia A. Papajohn, B.S., Boston University, 1957.
Lois Jane Parker, S.B., Simmons College, 1959.
Martha Pincus, A.B., Brooklyn College, 1940; A.M., Teachers College, Columbia University, 1945.
Ann Reynolds, B.S. IN ED., Chatham College, 1958.
Roberta McLean Rindfleisch, B.S., University of Minnesota, 1939.
Violet Marie Russo, B.ED., Duquesne University, 1954.
Elizabeth Middleton Shaffer, B.A., Wellesley College, 1958.
Mary Edna Shepard, B.A., Furman University, 1959.
Dorothy Marie Sibley, A.B., Bates College, 1959.
Hazel Mildred Smith, Diploma in Commerce, Diploma in Social Studies, University of Sydney, 1941. 1943; B. Economics, University of Queensland, 1956.
Virginia Hamel Soule, A.B., Vassar College, 1949.
Joyce Rawls Stringer, A.B., Tift College, 1949; M.R.E., Carver School of Missions and Social Work, 1957.
Nitza Troupin, B.A., Hebrew University, 1959.
Carolyn Hegarty Tunnock, B.A., University of New Hampshire, 1954.
Norma Van Dyke, A.B., Antioch College, 1957.
Mary Dianthe Warren, A.B., Smith College, 1959.
Alice Marie Woldstad, B.A., Montana State University, 1954.
Doris Zeller, Diploma, Schule für Soziale Arbeit, 1944.

Smith College School for Social Work

THE STAFF

HOWARD J. PARAD, M.S. IN S.S.	<i>Director</i>
ESTHER H. CLEMENCE, M.S.S.	<i>Director of Field Work</i> <i>Associate Professor of Social Work</i>
HELEN PINKUS, M.S.S.	<i>Associate Professor of Social Work</i>
ROGER R. MILLER, D.S.W.	<i>Director of Research</i> <i>Associate Professor of Social Work</i> <i>Editor, Smith College Studies in Social Work</i>
HARRIS CHAIKLIN, PH.D.	<i>Assistant Professor of Social Work</i> <i>Supervisor of Research</i>
NORMA E. NELSON, M.S.S.	<i>Supervisor of Field Work</i> <i>Social Casework</i>
ELIZABETH C. JOHNSON, B.S.	<i>Executive Secretary and Registrar</i>

ORGANIZATION OF THE SCHOOL

The Smith College School for Social Work was organized in 1918 as a graduate school in which to prepare psychiatric social workers for the war emergency. During 1918 and 1919 an intensive course of theory and a period of supervised practice were given to those who were graduated. These at once found their places in hospitals and social agencies. It was soon recognized that an approach to problems of social maladjustment through an understanding of the personalities involved was valid for every form of social casework. The Smith School therefore continued after the war emergency as a graduate professional school of social work and became a charter member of the Council on Social Work Education.

The first decade of the growth of the School corresponded to the period when the mental hygiene movement was enlarging its scope to include not only the better care of cases of mental illness and mental defect, but prevention of delinquency and the development of child guidance clinics. Psychiatric social workers were eagerly sought for the casework staffs of hospitals and community clinics and to carry preventive mental hygiene into courts, schools, and the public services. Social casework is a professional service which requires scientific knowledge and disciplined skill. Competent practice calls for the exercise of judgment and discretion.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

EDUCATIONAL PLAN

The educational plan of the Smith College School for Social Work is based on the premise that there is a basic core of knowledge and skill in social work which transcends the specializations. The educational program is so planned as to offer sound orientation in the broad aspects of social work and the development of professional competence in the practice of social casework. Graduates are prepared to hold casework positions in a wide variety of private and public agencies and to advance to supervisory and administrative responsibilities.

Classroom Instruction

Academic study is designed to provide such knowledge from the disciplines of medicine, psychiatry, psychology, law, and the social sciences as is required for the practice of social work. The courses in the methods of social casework integrate this factual knowledge and develop the principles and skills inherent in practice. Other courses in the broad field of social work cover theory and method in such areas as public welfare, child welfare, group work, administration, and community organization. Basic considerations in carrying on research in social casework are reviewed in a course that serves as an introduction for individual work on a thesis.

In order to carry out this educational policy the curriculum consists of a relatively few units of instruction covering basic areas rather than being broken up into many elective courses. For example, the basic course in public welfare aims to develop a sound comprehension of the scope and objectives of the field and to give a working knowledge of the varied individual programs on the federal, state, and local levels as they operate to meet the total needs of individuals. In the same way the casework courses demonstrate the application of casework principles in family casework, child welfare, psychiatric social work, and medical social work.

Courses offered in any one term are planned as a sequence and to achieve a total integration. Emphasis is placed on the discussion rather than the lecture method of teaching in the endeavor to train for independent and resourceful thinking. The educational process is strengthened by the fact that all the students live together on the campus of Smith College during the summer session and thereby are encouraged in continuous group thinking, mutual criticism, and discussion of the problems in the field of social work.

Field Instruction

Field work is an integral part of the curriculum, and academic credit is given for it. Students are assigned to agencies in small groups for a long and continuous practice period. This enables the student to become a participating member of the agency and community, and furthers the development of a professional attitude and point

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

of view. Responsible participation under guidance during the field work gives opportunity to develop competence and self-reliance in casework practice.

Forty-eight agencies in twenty-four cities are affiliated with the School. These are located in large urban centers such as Community Service Society in New York, Judge Baker Guidance Center in Boston, and in smaller communities, thereby providing contrasting experience in the two winter field placements. Students are placed under a supervisor who is highly qualified as practitioner and teacher. Members of the staff, administrators, consulting psychiatrists, and research specialists participate in the educational program. These factors assure good theoretical teaching as well as the acquisition of sound and skillful methodology.

Carefully selected and supervised reading is assigned to supplement and enrich the practice period in the field. In addition to individual instruction each agency is asked to offer a weekly seminar throughout the winter.

During the field work period thesis subjects are selected and worked on under the guidance of members of the school faculty. The preparation of a thesis is regarded as part of a student's training for a profession that looks to research for advancement of its theory and practice.

Continuous supervision from the School is maintained throughout the field work period by regular visits of faculty.

Curriculum

Plan A, the regular curriculum, covers three summer sessions in academic study on the Smith campus and two winter sessions in field work in agencies selected by and responsible to the School for the educational work.

Plan B covers two summer sessions of academic study at the School and an intervening winter session in field work. It is designed for students who have had adequate graduate preparation or satisfactory experience in an approved casework agency.

Plan C admits persons for a single summer session. Full credit will be given toward the degree provided the student is accepted for readmission to complete the course within a period of two years.

The School *Catalogue* giving full details for the coming year will be sent upon request.

Degrees

The Trustees of Smith College, on the recommendation of the staff, grant the degree of Master of Social Work (M.S.W.) on the following conditions: (a) completion of the period of residence, namely, a minimum of five quarters of full-time work; (b) satisfactory completion of the courses required, unless exempted by examination when advanced work may be substituted; (c) satisfactory completion of a thesis.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

Admission

The Smith College School for Social Work is open to women graduates of approved colleges who have completed at least twenty semester hours in the social and biological sciences. Inquiries and requests for applications for admission should be addressed to the Director, Smith College School for Social Work, Northampton.

Expenses

The fee for each summer session is \$400 which covers tuition, room, and board. For each winter session the fee is \$200.

During the periods of field work the students are personally responsible for their own maintenance and may not accept salaried positions.

Scholarships

A number of special stipends and scholarships are available for students accepted by the School. Certain hospitals offer internships which cover all living expenses of students; field work agencies grant several scholarships to apply toward maintenance. Several stipends of \$1,800 to \$2,800 are granted upon recommendation of the School by the United States Public Health Service and other Government agencies. No qualified candidate should be discouraged from making application because of financial limitations.

Calendar 1962-64

First Session	June to September 1962
Second Session	September 1962 to June 1963
Third Session	June to September 1963
Fourth Session	September 1963 to June 1964
Fifth Session	June to September 1964

Seminars

The School offers a series of two-week seminars in July open to experienced social workers and limited to twenty-five members. The seminars are conducted on the discussion method under the leadership of outstanding practitioners.

PROGRAM OF ADVANCED STUDY

(Third Year)

This program of fifteen months is designed for experienced graduate caseworkers in preparation for practice, supervision, teaching, and administration. It is assumed that candidates undertaking this advanced curriculum will be preparing for positions of increased responsibility and leadership.

SMITH COLLEGE SCHOOL FOR SOCIAL WORK

The program consists of formal course instruction, supervised clinical experience, and independent study. Seminars in casework and psychiatry are designed to improve the student's mastery of casework principles through a more thorough understanding of the dynamics of personality and social environment and of treatment methods. Seminars in teaching method and administrative process examine the educational and psychological principles involved. Agencies, clinics, and hospitals that are outstanding as teaching centers are used for field work.

The course is open to graduates of approved schools of social work who are well prepared in psychiatrically oriented casework, and who, following graduation, have had a minimum of three years of successful experience in a qualified casework agency.

The Board of Trustees of Smith College, upon the recommendation of the faculty, will grant a diploma to students who satisfactorily complete the course.

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Summary of Students in College

1961-1962

FRESHMAN CLASS (1965)	577
SOPHOMORE CLASS (1964)	675
Germany	1
JUNIOR CLASS (1963)	533
France	38
Guest Students	4
Geneva	32
Guest students	8
Germany	8
Guest students	2
Italy	3
Guest students	1
Scotland	3
Spain	8
Guest students	9
SENIOR CLASS (1962)	497
Out of residence	7
TOTAL UNDERGRADUATES	2282
GRADUATE STUDENTS	103
FOUR-COLLEGE STUDENTS	40
NONCOLLEGIATE STUDENTS	1
TOTAL	2426

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1962	Class of 1963	Class of 1964	Class of 1965	Graduate Students
Alabama	1	3	1	1	0
Alaska	1	0	2	0	0
Arizona	1	2	0	2	0
Arkansas	2	1	1	0	0
California	9	12	19	30	4
Colorado	2	5	5	9	0
Connecticut	57	44	80	47	3
Delaware	7	2	5	4	0
District of Columbia	8	5	9	13	1
Florida	6	7	5	5	3
Georgia	0	1	2	2	1
Hawaii	3	2	2	1	0
Idaho	0	0	2	0	0
Illinois	20	12	34	35	1
Indiana	3	4	4	9	1
Iowa	0	1	5	3	1
Kansas	2	1	3	7	0
Kentucky	0	3	2	4	1
Louisiana	1	2	3	2	1
Maine	6	6	4	8	0
Maryland	11	14	8	14	1
Massachusetts	74	76	83	81	48
Michigan	6	7	14	4	2
Minnesota	11	10	8	7	0
Mississippi	0	2	1	1	0
Missouri	10	8	7	9	0
Montana	2	1	1	0	0
Nebraska	0	2	3	2	0
New Hampshire	5	4	9	5	0
New Jersey	54	52	76	50	3
New Mexico	0	0	1	1	0
New York	95	119	152	108	7
North Carolina	1	1	2	3	1
North Dakota	0	0	1	0	0
Ohio	27	24	32	12	3
Oklahoma	1	0	2	0	0
Oregon	0	2	1	4	2
Pennsylvania	24	35	36	33	1
Rhode Island	3	3	4	5	0
South Carolina	1	2	0	0	1

GEOGRAPHICAL DISTRIBUTION OF STUDENTS

	Class of 1962	Class of 1963	Class of 1964	Class of 1965	Graduate Students
South Dakota	0	0	0	2	0
Tennessee	1	2	0	2	1
Texas	6	9	11	12	1
Vermont	6	0	7	5	2
Virginia	10	12	14	11	2
Washington	3	4	3	9	0
West Virginia	0	2	0	0	0
Wisconsin	4	6	8	7	0
Wyoming	1	1	0	0	0
	<hr/> 485	<hr/> 511	<hr/> 672	<hr/> 568	<hr/> 92
Argentina	0	1	0	0	0
Austria	0	1	0	0	0
Brazil	1	1	1	0	0
Canada	2	6	0	4	0
Chile	0	1	0	1	0
Colombia	0	1	0	0	0
England	1	1	0	0	2
France	1	3	0	0	0
Germany, Federal Republic of	2	3	0	1	0
Ghana	1	0	0	0	0
Greece	2	0	0	0	0
Hong Kong	0	0	0	1	0
Japan	2	1	0	0	1
Jordan	0	1	0	0	0
Korea	0	0	0	0	1
Nigeria	0	0	1	0	1
Norway	0	1	0	0	0
Singapore	0	0	0	1	0
Southern Rhodesia	0	1	0	0	0
Sweden	0	0	1	0	1
Switzerland	0	0	0	1	0
Taiwan	0	0	0	0	2
Tanganyika	0	0	0	0	1
Turkey	0	0	0	0	2
	<hr/> 12	<hr/> 22	<hr/> 3	<hr/> 9	<hr/> 11

Schedule of Midyear Examinations for the Year 1961-62

This schedule should be consulted before courses are elected.

The term "sectioned course" as used in this schedule means a course in which there are no hours of meeting in common for all the students of the course.

Examinations for courses not included will be arranged before the examination period.

	<i>Mon., Dec. 11</i>	<i>Tues., Dec. 12</i>	<i>Wed., Dec. 13</i>	<i>Thurs., Dec. 14</i>	<i>Fri. Dec. 15</i>
8:00-10:20	General Lit. 291	All classes scheduled for W Th F 2 except sectioned courses	Music 11 Music 21	All classes scheduled for Th F 4 except sectioned courses	French 22a French 13
10:45-1:05	All classes scheduled for Th F S 9 except sectioned courses	All classes scheduled for M T W 2 except sectioned courses	All classes scheduled for M T W 3 except sectioned courses	All classes scheduled for M T W 12 except sectioned courses	English 30a Psychology 11a
2:30-4:50	All classes scheduled for M T 4 except sectioned courses	Economics 21 Physics 11	French 11b French 12 French 15 French 16 French 26	Unscheduled Courses	All classes scheduled for M T W 11 except sectioned courses

Schedule of Midyear Examinations for the Year 1961-62

Continued

	<i>Sat., Dec. 16</i>	<i>Mon., Dec. 18</i>	<i>Tues., Dec. 19</i>	<i>Wed., Dec. 20</i>
8:00-10:20	Philosophy 11 Philosophy 24	All classes scheduled for W Th F 3 except sectioned courses	Mathematics 13 Mathematics 22a	All classes scheduled for Th F S 10 except sectioned courses
10:45-1:05	All classes scheduled for Th F S 11 except sectioned courses	Religion 21 Russian 11 Russian 21a Russian 31 Speech 13a	All classes scheduled for M T W 10 except sectioned courses	All classes scheduled for Th F S 12 except sectioned courses
2:30-4:50	History 11	All classes scheduled for M T W 9 except sectioned courses	Italian 11 Italian 11b Spanish 11 Spanish 11b Spanish 12 Spanish 16 Spanish 25	German 11 German 11b German 12 German 26

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